

Table 7. Essential Characteristics of Anti-Dengue Virus NS1 Monoclonal Antibodies

BMR Cat. No.	Clone No.	Mouse IgG Isotype	Reactivity in CELIXSYS* method (%)												Ag-ELISA method (A490nm)								
			Native NS1												Flavi virus NS1 (Recombinant)								
			DENV NS1 Type1		DENV NS1 Type2		DENV NS1 Type3		DENV NS1 Type4		ZIKAV NS1		JEV NS1		DENV NS1 Type1	DENV NS1 Type2	DENV NS1 Type3	DENV NS1 Type4	Cross Reactivity to NS1 proteins of other Flavivirus				
			Ab Conc. 10ug/mL	Ab Conc. 1ug/mL	Ab Conc. 10ug/mL	Ab Conc. 1ug/mL	Ab Conc. 10ug/mL	Ab Conc. 1ug/mL	Ab Conc. 10ug/mL	Ab Conc. 1ug/mL	Ab Conc. 10ug/mL	Ab Conc. 1ug/mL	Ab Conc. 10ug/mL	Ab Conc. 1ug/mL	Ab Conc. = 1ug/mL								
																		ZIKV NS1	JEV NS1	WNV NS1	YFV NS1		
BMRdn012	DEN2-973	IgG2a	100	97	100	99	99	89	100	98	19	6	4	10	3.940	3.942	3.942	3.880	0.073	0.096	0.045	0.048	
BMRdn010	DEN2-221	IgG2a	99	93	100	96	98	82	99	95	7	4	5	6	3.880	3.864	3.900	3.834	0.056	0.093	0.049	0.048	
BMRdn003	DEN1-503	IgG1	98	89	100	99	91	24	99	91	16	0	10	4	3.856	3.880	3.897	3.719	0.085	0.070	0.046	0.045	
BMRdn011	DEN2-392	IgG1	98	88	95	38	92	45	90	35	12	4	6	7	3.806	3.811	3.856	3.240	0.045	0.050	0.044	0.070	
BMRdn008	DEN1-1746	IgG1	97	38	100	99	98	61	100	99	13	0	0	3	3.888	3.931	3.939	3.918	0.099	0.129	0.070	0.048	
BMRdn005	DEN1-1232	IgG1	94	20	100	99	95	36	100	98	12	0	4	7	3.971	4.000	4.000	3.982	0.064	0.103	0.047	0.046	
BMRdn002	DEN1-303	IgG1	91	14	99	94	92	19	99	93	5	0	2	3	3.844	3.862	3.896	3.872	0.068	0.093	0.054	0.052	
BMRdn007	DEN1-1707	IgG1	77	0	100	94	88	11	99	87	10	0	0	4	3.900	3.951	3.970	3.931	0.075	0.082	0.047	0.045	
BMRdn001	DEN1-109	IgG1	75	5	99	94	86	8	97	82	0	0	0	0	3.786	3.829	3.832	3.793	0.255	0.078	0.053	0.044	
BMRdn009	DEN1-1836	IgG2b	58	12	98	92	75	13	97	86	8	3	0	0	3.841	3.856	3.872	3.823	0.152	0.209	0.066	0.046	
BMRdn006	DEN1-1388	IgG1	39	4	100	92	76	7	99	71	9	2	4	8	3.930	3.969	3.991	3.970	0.044	0.077	0.045	0.044	
BMRdn014	DEN3-853	IgG1	100	98	41	5	95	43	100	76	12	1	5	10	3.964	3.770	3.863	4.000	0.044	0.064	0.043	0.044	
BMRdn013	DEN3-356	IgG1	100	99	99	82	99	92	100	98	29	0	31	11	3.975	3.972	3.964	3.891	0.160	0.095	0.064	0.048	
BMRdn015	DEN4-218	IgG1	99	97	100	99	99	92	100	98	33	0	48	12	3.920	3.922	3.937	4.000	0.156	0.134	0.283	0.045	
Flavivirus NS1 common Ab	DEN5-380	IgG2a	99	99	100	98	99	96	99	97	99	81	100	96	3.924	3.899	3.904	3.903	3.489	3.593	3.687	3.377	
	DEN5-1089	IgG2b	99	97	98	94	98	88	98	91	94	46	98	88	3.959	3.974	3.994	3.917	3.390	3.628	3.883	2.955	
Control Ab	HIS-1647	IgG1	0	1	2	1	5	0	0	2	2	0	0	7	3.919	3.949	3.947	3.930	3.548	3.570	3.683	3.703	

: Currently best selling clones but depending on an assay platform.

* The CELIXSYS method is an immuno-precipitation-equivalent screening method. The figure (expressed in %) represents the strength of reactivity of monoclonal antibodies to each serotype of Dengue virus NS1. The figure (expressed in %) represents a strength of reactivity of monoclonal antibodies to each serotype NS1 protein. The higher the figure, the stronger the reactivity of antibody in a liquid phase.

Summary of Technical Data Sheet for BMR Anti-Influenza A Monoclonal Antibody

*** Contact us for matching pairs**

Product Name	Anti-Dengue NS1 Monoclonal Antibody	Anti-Dengue NS1 Monoclonal Antibody	Anti-Dengue NS1 Monoclonal Antibody	Anti-Dengue NS1 Monoclonal Antibody	Anti-Dengue NS1 Monoclonal Antibody	Anti-Dengue NS1 Monoclonal Antibody	Anti-Dengue NS1 Monoclonal Antibody	Anti-Dengue NS1 Monoclonal Antibody
BMR Catalog No.	BMRdn001	BMRdn002	BMRdn003	BMRdn005	BMRdn006	BMRdn007	BMRdn008	BMRdn009
Clone Number	DEN1-109	DEN1-303	DEN1-503	DEN1-1232	DEN1-1388	DEN1-1707	DEN1-1746	DEN1-1836
Lot Number	Depend on the purification Lot	Depend on the purification Lot	Depend on the purification Lot	Depend on the purification Lot	Depend on the purification Lot	Depend on the purification Lot	Depend on the purification Lot	Depend on the purification Lot
Isotype	IgG1	IgG1	IgG1	IgG1	IgG1	IgG1	IgG1	IgG2b
Concentration	1 ~ 5 mg/mL Depend on the purification Lot (5mg/mL for most lots)	1 ~ 5 mg/mL Depend on the purification Lot (5mg/mL for most lots)	1 ~ 5 mg/mL Depend on the purification Lot (5mg/mL for most lots)	1 ~ 5 mg/mL Depend on the purification Lot (5mg/mL for most lots)	1 ~ 5 mg/mL Depend on the purification Lot (5mg/mL for most lots)	1 ~ 5 mg/mL Depend on the purification Lot (5mg/mL for most lots)	1 ~ 5 mg/mL Depend on the purification Lot (5mg/mL for most lots)	1 ~ 5 mg/mL Depend on the purification Lot (5mg/mL for most lots)
Host	Host : Mouse. Hybridization of P3X63.Ag8.653 myeloma cells with spleen cells from BALB/c mice. Source : Ascites	Host : Mouse. Hybridization of P3X63.Ag8.653 myeloma cells with spleen cells from BALB/c mice. Source : Ascites	Host : Mouse. Hybridization of P3X63.Ag8.653 myeloma cells with spleen cells from BALB/c mice. Source : Ascites	Host : Mouse. Hybridization of P3X63.Ag8.653 myeloma cells with spleen cells from BALB/c mice. Source : Ascites	Host : Mouse. Hybridization of P3X63.Ag8.653 myeloma cells with spleen cells from BALB/c mice. Source : Ascites	Host : Mouse. Hybridization of P3X63.Ag8.653 myeloma cells with spleen cells from BALB/c mice. Source : Ascites	Host : Mouse. Hybridization of P3X63.Ag8.653 myeloma cells with spleen cells from BALB/c mice. Source : Ascites	Host : Mouse. Hybridization of P3X63.Ag8.653 myeloma cells with spleen cells from BALB/c mice. Source : Ascites
Immunogen	Dengue Type3 NS1 (Recombinant)	Dengue Type3 NS1 (Recombinant)	Dengue Type3 NS1 (Recombinant)	Dengue Type3 NS1 (Recombinant)	Dengue Type3 NS1 (Recombinant)	Dengue Type3 NS1 (Recombinant)	Dengue Type3 NS1 (Recombinant)	Dengue Type3 NS1 (Recombinant)
Specificity	React to native NS1 of Dengue virus (DENV-1,DENV-2, DENV-3 and DENV-4)	React to native NS1 of Dengue virus (DENV-1,DENV-2, DENV-3 and DENV-4)	React to native NS1 of Dengue virus (DENV-1,DENV-2, DENV-3 and DENV-4)	React to native NS1 of Dengue virus (DENV-1,DENV-2, DENV-3 and DENV-4)	React to native NS1 of Dengue virus (DENV-1,DENV-2, DENV-3 and DENV-4)	React to native NS1 of Dengue virus (DENV-1,DENV-2, DENV-3 and DENV-4)	React to native NS1 of Dengue virus (DENV-1,DENV-2, DENV-3 and DENV-4)	React to native NS1 of Dengue virus (DENV-1,DENV-2, DENV-3 and DENV-4)
Cross Reactivity	No cross reaction to Japanese encephalitis (JE), West Nile and Yellow Fever Viruses NS1 recombinant proteins, but only slight reaction to Zika Virus recombinant NS1 protein was observed.	No cross reaction to Zika, West Nile and Yellow Fever Viruses NS1 Recombinant proteins, but only slight reaction to Japanese encephalitis (JE) Virus recombinant NS1 protein was observed.	Almost no cross reaction to Zika, Japanese encephalitis (JE), West Nile and Yellow Fever Viruses NS1 recombinant proteins were observed.	No cross reaction to Zika, West Nile and Yellow Fever Viruses NS1 Recombinant proteins, but only slight reaction to Japanese encephalitis (JE) Virus recombinant NS1 protein was observed.	Almost no cross reaction to Zika, Japanese encephalitis (JE), West Nile and Yellow Fever Viruses NS1 recombinant proteins were observed.	Almost no cross reaction to Zika, Japanese encephalitis (JE), West Nile and Yellow Fever Viruses NS1 recombinant proteins were observed.	No cross reaction to West Nile and Yellow Fever Viruses NS1 recombinant proteins, but slight reaction to Zika and Japanese encephalitis (JEV) Viruses recombinant NS1 proteins were observed.	No cross reaction to West Nile and Yellow Fever Viruses NS1 recombinant proteins, but slight reaction to Zika and Japanese encephalitis (JEV) Viruses recombinant NS1 proteins were observed.
Grade & Purity	In vitro use only. Purity is more than 95% (SDS-PAGE or HPLC)	In vitro use only. Purity is more than 95% (SDS-PAGE or HPLC)	In vitro use only. Purity is more than 95% (SDS-PAGE or HPLC)	In vitro use only. Purity is more than 95% (SDS-PAGE or HPLC)	In vitro use only. Purity is more than 95% (SDS-PAGE or HPLC)	In vitro use only. Purity is more than 95% (SDS-PAGE or HPLC)	In vitro use only. Purity is more than 95% (SDS-PAGE or HPLC)	In vitro use only. Purity is more than 95% (SDS-PAGE or HPLC)
Form & Buffer	Protein A purified and supplied as a liquid in PBS(-); pH7.4, 3.0mM KCl, 1.5mM KH ₂ PO ₄ , 140mM NaCl, 8.0mM Na ₂ HPO ₄	Protein A purified and supplied as a liquid in PBS(-); pH7.4, 3.0mM KCl, 1.5mM KH ₂ PO ₄ , 140mM NaCl, 8.0mM Na ₂ HPO ₄	Protein A purified and supplied as a liquid in PBS(-); pH7.4, 3.0mM KCl, 1.5mM KH ₂ PO ₄ , 140mM NaCl, 8.0mM Na ₂ HPO ₄	Protein A purified and supplied as a liquid in PBS(-); pH7.4, 3.0mM KCl, 1.5mM KH ₂ PO ₄ , 140mM NaCl, 8.0mM Na ₂ HPO ₄	Protein A purified and supplied as a liquid in PBS(-); pH7.4, 3.0mM KCl, 1.5mM KH ₂ PO ₄ , 140mM NaCl, 8.0mM Na ₂ HPO ₄	Protein A purified and supplied as a liquid in PBS(-); pH7.4, 3.0mM KCl, 1.5mM KH ₂ PO ₄ , 140mM NaCl, 8.0mM Na ₂ HPO ₄	Protein A purified and supplied as a liquid in PBS(-); pH7.4, 3.0mM KCl, 1.5mM KH ₂ PO ₄ , 140mM NaCl, 8.0mM Na ₂ HPO ₄	Protein A purified and supplied as a liquid in PBS(-); pH7.4, 3.0mM KCl, 1.5mM KH ₂ PO ₄ , 140mM NaCl, 8.0mM Na ₂ HPO ₄
Storage	Store at 2-8°C	Store at 2-8°C	Store at 2-8°C	Store at 2-8°C	Store at 2-8°C	Store at 2-8°C	Store at 2-8°C	Store at 2-8°C
Method of Purification	Protein A affinity purification	Protein A affinity purification	Protein A affinity purification	Protein A affinity purification	Protein A affinity purification	Protein A affinity purification	Protein A affinity purification	Protein A affinity purification
Size	1mg ~	1mg ~	1mg ~	1mg ~	1mg ~	1mg ~	1mg ~	1mg ~
Contaminants	NA	NA	NA	NA	NA	NA	NA	NA
Preservative	0.05% NaN ₃	0.05% NaN ₃	0.05% NaN ₃	0.05% NaN ₃	0.05% NaN ₃	0.05% NaN ₃	0.05% NaN ₃	0.05% NaN ₃
Biohazard Information	This product contains 0.05% sodium azide as a preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling.	This product contains 0.05% sodium azide as a preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling.	This product contains 0.05% sodium azide as a preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling.	This product contains 0.05% sodium azide as a preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling.	This product contains 0.05% sodium azide as a preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling.	This product contains 0.05% sodium azide as a preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling.	This product contains 0.05% sodium azide as a preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling.	This product contains 0.05% sodium azide as a preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling.

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BMR Catalog No.	BMRdn010	BMRdn011	BMRdn012	BMRdn013	BMRdn014	BMRdn015
Clone Number	DEN2-221	DEN2-392	DEN2-973	DEN3-356	DEN3-853	DEN4-218
Lot Number	Depend on the purification Lot	Depend on the purification Lot	Depend on the purification Lot	Depend on the purification Lot	Depend on the purification Lot	Depend on the purification Lot
Isotype	IgG2a	IgG1	IgG2a	IgG1	IgG1	IgG1
Concentration	1 ~ 5 mg/mL Depend on the purification Lot (5mg/mL for most lots)	1 ~ 5 mg/mL Depend on the purification Lot (5mg/mL for most lots)	1 ~ 5 mg/mL Depend on the purification Lot (5mg/mL for most lots)	1 ~ 5 mg/mL Depend on the purification Lot (5mg/mL for most lots)	1 ~ 5 mg/mL Depend on the purification Lot (5mg/mL for most lots)	1 ~ 5 mg/mL Depend on the purification Lot (5mg/mL for most lots)
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Specificity	React to native NS1 of Dengue virus (DENV-1,DENV-2, DENV-3 and DENV-4)	React to native NS1 of Dengue virus (DENV-1,DENV-2, DENV-3 and DENV-4)	React to native NS1 of Dengue virus (DENV-1,DENV-2, DENV-3 and DENV-4)	React to native NS1 of Dengue virus (DENV-1,DENV-2, DENV-3 and DENV-4)	React to native NS1 of Dengue virus (DENV-1,DENV-2, DENV-3 and DENV-4)	React to native NS1 of Dengue virus (DENV-1,DENV-2, DENV-3 and DENV-4)
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Grade & Purity	In vitro use only. Purity is more than 95% (SDS-PAGE or HPLC)	In vitro use only. Purity is more than 95% (SDS-PAGE or HPLC)	In vitro use only. Purity is more than 95% (SDS-PAGE or HPLC)	In vitro use only. Purity is more than 95% (SDS-PAGE or HPLC)	In vitro use only. Purity is more than 95% (SDS-PAGE or HPLC)	In vitro use only. Purity is more than 95% (SDS-PAGE or HPLC)
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Storage	Store at 2-8°C	Store at 2-8°C	Store at 2-8°C	Store at 2-8°C	Store at 2-8°C	Store at 2-8°C
Method of Purification	Protein A affinity purification	Protein A affinity purification	Protein A affinity purification	Protein A affinity purification	Protein A affinity purification	Protein A affinity purification
Size	1mg ~	1mg ~	1mg ~	1mg ~	1mg ~	1mg ~
Contaminants	NA	NA	NA	NA	NA	NA
Preservative	0.05% NaN ₃	0.05% NaN ₃	0.05% NaN ₃	0.05% NaN ₃	0.05% NaN ₃	0.05% NaN ₃
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