

For Research Use Only

CRTAM/CD355 Recombinant antibody

Catalog Number: 84068-4-RR



Basic Information

Catalog Number: 84068-4-RR	GenBank Accession Number: NM_019604.4	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 56253	CloneNo.: 241280C4
Source: Rabbit	UNIPROT ID: O95727-1	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:400-1:1600 IF-P 1:200-1:800
Isotype: IgG	Full Name: cytotoxic and regulatory T cell molecule	
	Calculated MW: 45 kDa	
	Observed MW: 70 kDa	

Applications

Tested Applications: WB, IHC, IF-P, ELISA	Positive Controls:
Species Specificity: human, mouse	WB : Jurkat cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : mouse brain tissue,
	IF-P : mouse brain tissue,

Background Information

Cytotoxic and regulatory T cell molecule (CRTAM, also known as CD355) is an immunoglobulin-superfamily transmembrane protein with V and C1-like Ig domains, which is involved in epithelial cell adhesion (PMID: 18329370; 20556794). CRTAM is critical to instruct the differentiation of CD4+ cytotoxic T cells (CTL) through the induction of eomesodermin and CTL-related genes (PMID: 26694968). It also regulates CD8+ T cell retention within the lymph node and eventually effector function (PMID: 19752223). The predicted molecular weight of CRTAM is 43 kDa. Due to glycosylation, the observed molecular weight of CRTAM can be apparent at ~80 kDa (PMID: 16300832).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

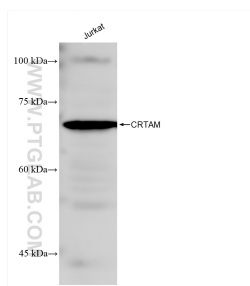
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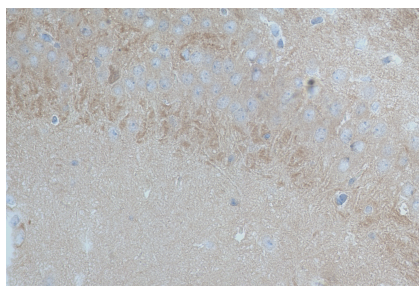
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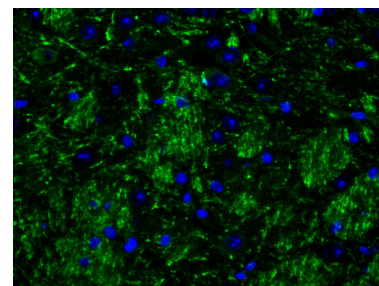
Selected Validation Data



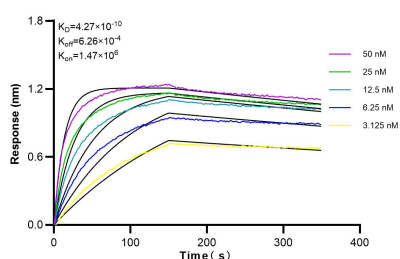
Various lysates were subjected to SDS PAGE followed by western blot with 84068-4-RR (CRTAM antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84068-4-RR (CRTAM antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CRTAM antibody (84068-4-RR, Clone: 241280C4) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 84068-4-RR against Human CRTAM were performed. The affinity constant is 0.427 nM.