

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: 100ul , Concentration: 1000 ug/ml by Nanodrop;	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

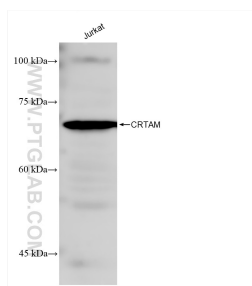
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

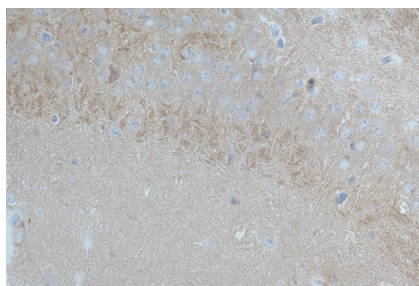
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

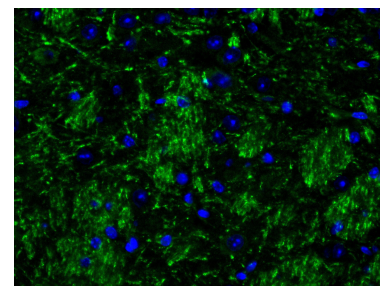
Selected Validation Data



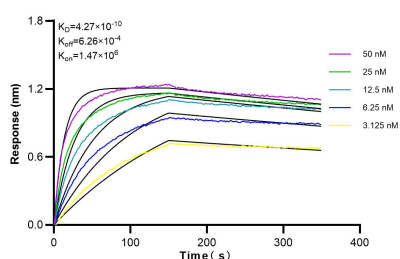
Various lysates were subjected to SDS PAGE followed by western blot with 84068-4-RR (CRTAM antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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.