

For Research Use Only

EOMES/TBR2 Recombinant antibody

Catalog Number: 83945-5-RR



Basic Information

Catalog Number: 83945-5-RR	GenBank Accession Number: NM_001278182	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 8320	CloneNo.: 241036D9
Source: Rabbit	UNIPROT ID: O95936	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:125-1:500
Isotype: IgG	Full Name: eomesodermin homolog (Xenopus laevis)	
Immunogen Catalog Number: AG27634	Calculated MW: 73 aa	
	Observed MW: 67 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse	WB : NK-92 cells, IF/ICC : SH-SY5Y cells,

Background Information

EOMES/TRB2 (also named Eomesodermin/Tbr2) encode T-box transcription factor expressed highly in the intermediate progenitor stage of the developing neuron. During migration of the neurons, radial glia divide and migrate towards the surface of the cerebral cortex, there are three stages of cellular development: radial glia, intermediate progenitors, and postmitotic projection neurons. Radial glia express Pax6, while intermediate progenitor cells express Eomesodermin/Tbr2, and postmitotic projection neurons express Tbr1 (PMID:15634788; PMID:16320258). This process also called neurogenesis, and demonstrated that Eomesodermin/Tbr2 has been implicated in neurodevelopment. According to the mouse model, several articles showed that EOMES/TRB2 KO mice having proliferating cells decreased and having smaller upper cortical layers and a smaller sub ventricular zone in the brain (PMID:18940588). What's more, Eomesodermin/Tbr2 has also been found participating in immune response (PMID:20713880).

Storage

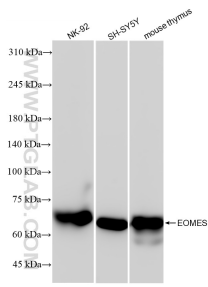
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

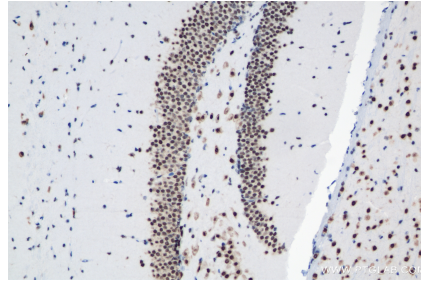
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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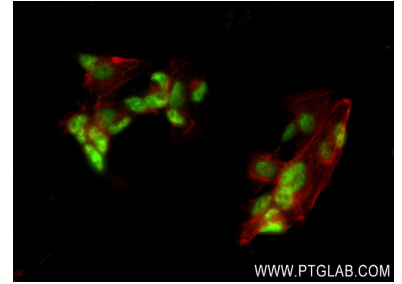
Selected Validation Data



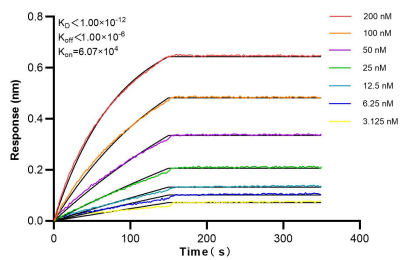
Various lysates were subjected to SDS PAGE followed by western blot with 83945-5-RR (EOMES antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83945-5-RR (EOMES/TBR2 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using EOMES antibody (83945-5-RR, Clone: 241036D9) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 83945-5-RR against Human EOMES were performed. The affinity constant is below 1 pM.