

For Research Use Only

# EOMES/TRB2 Recombinant antibody, PBS Only

Catalog Number:83945-5-PBS



## Basic Information

<b>Catalog Number:</b> 83945-5-PBS	<b>GenBank Accession Number:</b> NM_001278182	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8320	<b>CloneNo.:</b> 241036D9
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O95936	
<b>Isotype:</b> IgG	<b>Full Name:</b> eomesodermin homolog (Xenopus laevis)	
<b>Immunogen Catalog Number:</b> AG27634	<b>Calculated MW:</b> 73 aa	
	<b>Observed MW:</b> 67 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, Indirect ELISA

**Species Specificity:**  
human, mouse

## 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

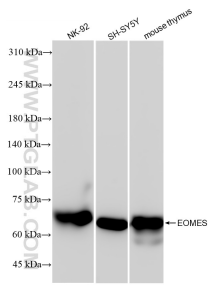
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

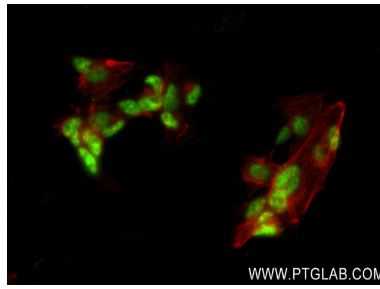
For technical support and original validation data for this product please contact:  
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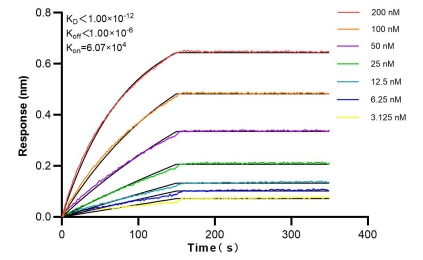
## Selected Validation Data



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. This data was developed using the same antibody clone with 83945-5-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 83945-5-PBS in a different storage buffer formulation.



Biacore kinetic assays of 83945-5-RR against Human EOMES were performed. The affinity constant is below 1 pM.