

For Research Use Only

RAI14 Recombinant monoclonal antibody, PBS Only

Catalog Number: 86581-1-PBS



Basic Information

Catalog Number: 86581-1-PBS	GenBank Accession Number: BC052988	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 26064	CloneNo.: 251495G12
Source: Rabbit	UNIPROT ID: Q9P0K7	
Isotype: IgG	Full Name: retinoic acid induced 14	
Immunogen Catalog Number: AG11708	Calculated MW: 980 aa, 110 kDa	
	Observed MW: 110 kDa	

Applications

Tested Applications:
WB, IF/ICC, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

RAI14 (retinoic acid-induced protein 14, also called ankycorbin or NORPEG) was originally identified in human retinal pigment epithelial cells as a retinoic-acid-responsive gene. Through direct interaction with actin-binding partners such as palladin and TARA, RAI14 orchestrates focal adhesion dynamics, cell polarity and mechanosensing; in epithelia it stabilizes tight-junction complexes, whereas in neurons it localizes to the dendritic-spine neck where it promotes spine maintenance by antagonizing F-actin depolymerization. Consistent with its cytoskeletal role, RAI14 has emerged as a context-dependent modulator of several signalling cascades.

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

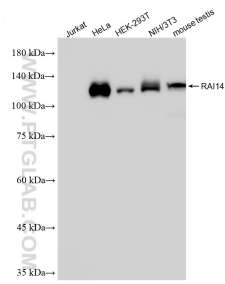
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

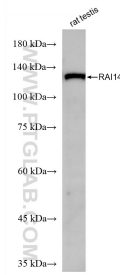
E: proteintech@ptglab.com
W: ptglab.com

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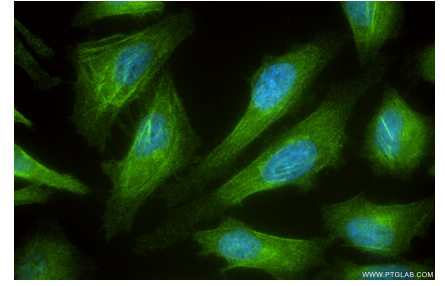
Selected Validation Data



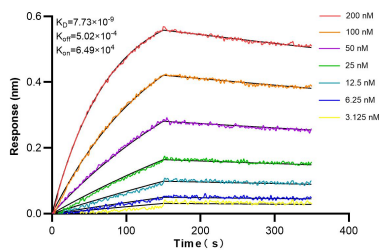
Various lysates were subjected to SDS PAGE followed by western blot with 86581-1-RR (RAI14 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86581-1-PBS in a different storage buffer formulation.



rat testis tissue were subjected to SDS PAGE followed by western blot with 86581-1-RR (RAI14 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86581-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using RAI14 antibody (86581-1-RR, Clone: 251495G12) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 86581-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 86581-1-RR against Human RAI14 were performed. The affinity constant is 7.73 nM.