

For Research Use Only

RAI14 Recombinant monoclonal antibody

Catalog Number: 86581-1-RR



Basic Information

Catalog Number: 86581-1-RR	GenBank Accession Number: BC052988	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 26064	CloneNo.: 251495G12
Isotype: IgG	UNIPROT ID: Q9P0K7	Recommended Dilutions: WB: 1:5000-1:50000 IF/ICC: 1:250-1:1000
Immunogen Catalog Number: AG11708	Full Name: retinoic acid induced 14	
	Calculated MW: 980 aa, 110 kDa	
	Observed MW: 110 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : HeLa cells, rat testis tissue, HEK-293T cells, NIH/3T3 cells, mouse testis tissue
	IF/ICC : HeLa cells,

Background Information

RAI14 (retinoic acid-induced protein 14, also called ankyrcorbin 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 -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

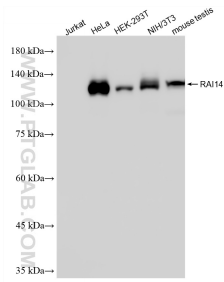
T: 4006900926

E: Proteintech-CN@ptglab.com

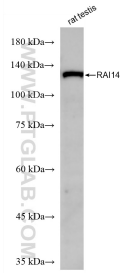
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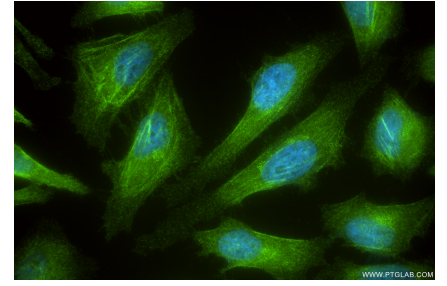
Selected Validation Data



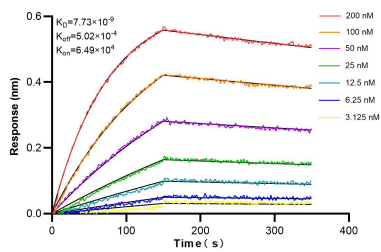
Various lysates were subjected to SDS PAGE followed by western blot with 86581-1-RR (RAI14 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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.



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).



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