

For Research Use Only

# RAI14 Recombinant monoclonal antibody

Catalog Number: 86581-1-RR



## Basic Information

<b>Catalog Number:</b> 86581-1-RR	<b>GenBank Accession Number:</b> BC052988	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 26064	<b>CloneNo.:</b> 251495G12
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9P0K7	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IF/ICC: 1:250-1:1000
<b>Isotype:</b> IgG	<b>Full Name:</b> retinoic acid induced 14	
<b>Immunogen Catalog Number:</b> AG11708	<b>Calculated MW:</b> 980 aa, 110 kDa	
	<b>Observed MW:</b> 110 kDa	

## Applications

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

## Background Information

RAI14 (retinoic acid-induced protein 14, also called ankyrin 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**

**\*\*\* 20ul sizes contain 0.1% BSA**

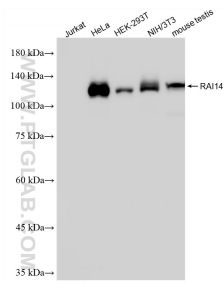
For technical support and original validation data for this product please contact:

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

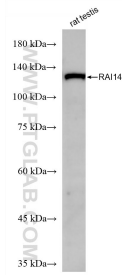
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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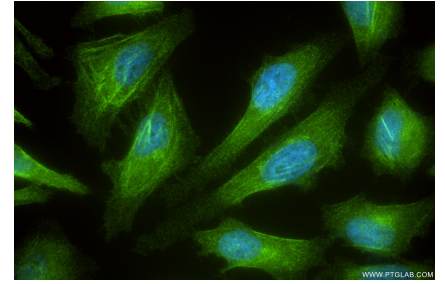
## Selected Validation Data



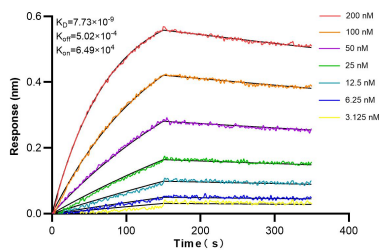
Various lysates were subjected to SDS PAGE followed by western blot with 86581-1-RR (RAI14 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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.