RANBP1 polyclonal antibody

Catalog # PAB6654 Size 100 ug

Applications



Western Blot (Tissue lysate)

RANBP1 polyclonal antibody (Cat # PAB6654) (0.3 ug/mL) staining of Human Duodenum lysate (35 ug protein in RIPA buffer). Detected by chemiluminescence.



Western Blot (Cell lysate)

RANBP1 polyclonal antibody (Cat # PAB6654) (0.03 ug/mL) staining of A431 (1), (0.5 ug/mL) HeLa (2) and (0.1 ug/mL) MCF7 (3) cell lysate (35 ug protein in RIPA buffer). Detected by chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections)

Immunohistochemical staining of human kidney with RANBP1 polyclonal antibody (Cat # PAB6654) (3.8 ug/mL). Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

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Immunofluorescence

RANBP1 polyclonal antibody (Cat # PAB6654) Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).

Immunofluorescence

RANBP1 polyclonal antibody (Cat # PAB6654) Immunofluorescence analysis of paraformaldehyde fixed HEK293 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).



Alexa Fluor 488

Anti- RANBP1

Flow Cytometry

RANBP1 polyclonal antibody (Cat # PAB6654) Flow cytometric analysis of paraformaldehyde fixed HEK293 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (1 ug/mL). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of RANBP1.
Immunogen	A synthetic peptide corresponding to human RANBP1.
Sequence	C-LSVKEETKEDAEEKQ
Host	Goat
Theoretical MW (kDa)	23.3

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Product Information

Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:16000) Flow Cytometry (10 ug/mL) Immunofluorescence (10 ug/mL) Immunohistochemistry (3-5 ug/mL) Western Blot (0.03-0.5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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- Enzyme-linked Immunoabsorbent Assay
- Flow Cytometry

RANBP1 polyclonal antibody (Cat # PAB6654) Flow cytometric analysis of paraformaldehyde fixed HEK293 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (1 ug/mL). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.

Gene Info — RANBP1	
Entrez GenelD	5902
Protein Accession#	<u>NP_002873</u>
Gene Name	RANBP1
Gene Alias	HTF9A, MGC88701
Gene Description	RAN binding protein 1
Omim ID	601180
Gene Ontology	Hyperlink
Gene Summary	Ran/TC4-binding protein, RanBP1, interacts specifically with GTP-charged RAN. RANBP1 encod es a 23-kD protein that binds to RAN complexed with GTP but not GDP. RANBP1 does not activ ate GTPase activity of RAN but does markedly increase GTP hydrolysis by the RanGTPase-activ ating protein (RanGAP1). The RANBP1 cDNA encodes a 201-amino acid protein that is 92% si milar to its mouse homolog. In both mammalian cells and in yeast, RANBP1 acts as a negative re gulator of RCC1 by inhibiting RCC1-stimulated guanine nucleotide release from RAN. [provided b y RefSeq
Other Designations	-

Publication Reference

• <u>Co-activation of RanGTPase and inhibition of GTP dissociation by Ran-GTP binding protein RanBP1.</u>

Bischoff FR, Krebber H, Smirnova E, Dong W, Ponstingl H. The EMBO Journal 1995 Feb; 14(4):705.

Disease

- Disease Progression
- Disease Susceptibility
- HIV Infections