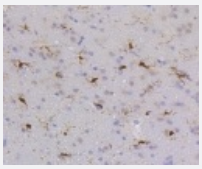
RecomAb™ Sm Size

PTPN6 recombinant monoclonal antibody

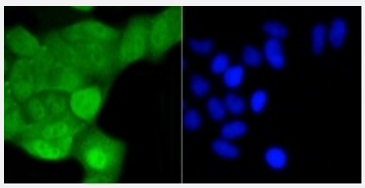
Catalog # RAB09365 Size 50 uL

Applications



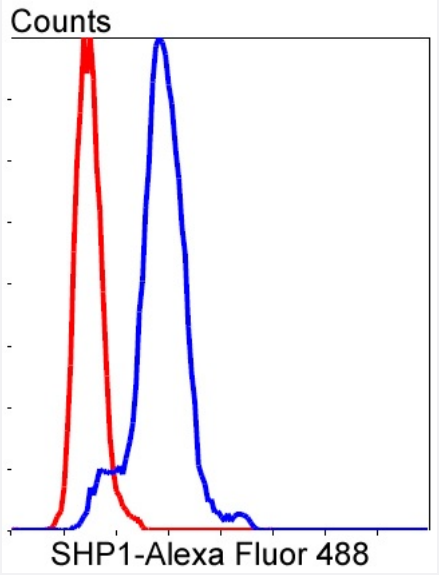
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded rat brain tissue using PTPN6 recombinant monoclonal antibody (Cat # RAB09365). Counter stained with hematoxylin.



Immunocytochemistry

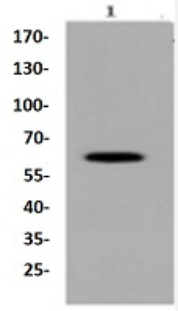
Immunocytochemical staining of HeLa cells using PTPN6 recombinant monoclonal antibody (Cat # RAB09365)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.



Flow Cytometry

Flow cytometric analysis of Hela cells with PTPN6 recombinant monoclonal antibody (Cat # RAB09365) at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

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Western Blot (Cell lysate)

Western blot analysis of Lane1:Raji whole cell lysate of Mouse with PTPN6 recombinant monoclonal antibody (Cat # RAB09365) at 1:500 dilution.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against PTPN6.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant PTPN6.
Theoretical MW (kDa)	68
Reactivity	Human, Mouse, Rat
Specificity	This antibody detects endogenous levels of SHP1 and does not cross-react with related proteins.
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Protein A purification
Isotype	IgG
Recommend Usage	Flow Cytometry (1:50-1:100) Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:500) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.2 (50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical analysis of paraffin-embedded rat brain tissue using PTPN6 recombinant monoclonal antibody (Cat # RAB09365). Counter stained with hematoxylin.

- Immunocytochemistry

  Immunocytochemical staining of HeLa cells using PTPN6 recombinant monoclonal antibody (Cat # RAB09365)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

- Flow Cytometry

  Flow cytometric analysis of Hela cells with PTPN6 recombinant monoclonal antibody (Cat # RAB09365) at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

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Gene Info — PTPN6

Entrez GeneID	5777
Protein Accession#	P29350
Gene Name	PTPN6
Gene Alias	HCP, HCPH, HPTP1C, PTP-1C, SH-PTP1, SHP-1, SHP-1L, SHP1
Gene Description	protein tyrosine phosphatase, non-receptor type 6
Omim ID	176883
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including c ell growth, differentiation, mitotic cycle, and oncogenic transformation. N-terminal part of this PTP contains two tandem Src homolog (SH2) domains, which act as protein phospho-tyrosine binding domains, and mediate the interaction of this PTP with its substrates. This PTP is expressed prim arily in hematopoietic cells, and functions as an important regulator of multiple signaling pathways in hematopoietic cells. This PTP has been shown to interact with, and dephosphorylate a wide sp ectrum of phospho-proteins involved in hematopoietic cell signaling. Multiple alternatively spliced variants of this gene, which encode distinct isoforms, have been reported. [provided by RefSeq

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Other Designations	hematopoietic cell phosphatase|hematopoietic cell protein-tyrosine phosphatase|protein-tyrosine phosphatase 1C

Pathway

- Adherens junction
- B cell receptor signaling pathway
- Jak-STAT signaling pathway
- Natural killer cell mediated cytotoxicity
- T cell receptor signaling pathway

Disease

- Alzheimer disease
- Cerebral Amyloid Angiopathy
- Genetic Predisposition to Disease
- Lupus Erythematosus
- Neuroblastoma

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