

ARG45400 anti-CD148 / DEP1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CD148 / DEP1
Tested Reactivity	Hu, Rat
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CD148 / DEP1
Species	Human
Immunogen	Recombinant protein containing to human CD148 / DEP1.
Conjugation	Un-conjugated
Alternate Names	R-PTP-J; Density-enhanced phosphatase 1; R-PTP-ETA; DEP-1; SCC1; DEP1; CD antigen CD148; Receptor-type tyrosine-protein phosphatase eta; Protein-tyrosine phosphatase eta; Protein-tyrosine phosphatase receptor type J; EC 3.1.3.48; HPTPeta; HPTP eta; R-PTP-eta; CD148

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 ⁶ cells
	IHC-P	2-5 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	240 kDa	

Properties

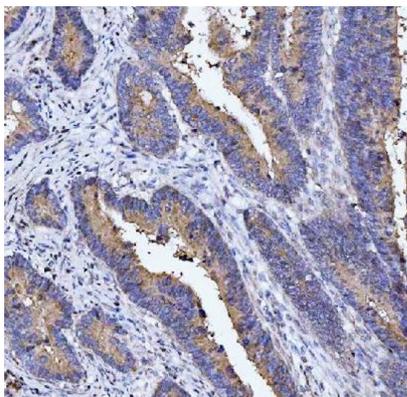
Form	Powder
Purification	Affinity purified
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

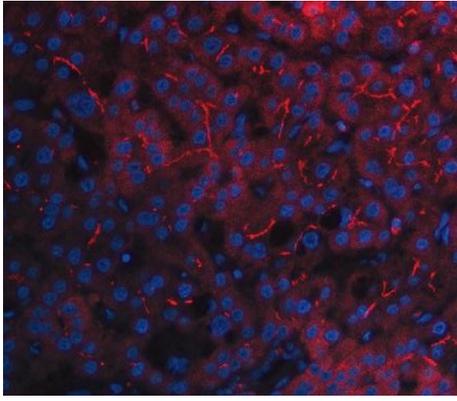
Gene Symbol	PTPRJ
Gene Full Name	protein tyrosine phosphatase, receptor type, J
Background	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes, including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP possesses an extracellular region containing five fibronectin type III repeats, a single transmembrane region, and a single intracytoplasmic catalytic domain, and thus represents a receptor-type PTP. This protein is present in all hematopoietic lineages, and was shown to negatively regulate T cell receptor signaling possibly through interfering with the phosphorylation of Phospholipase C Gamma 1 and Linker for Activation of T Cells. This protein can also dephosphorylate the PDGF beta receptor, and may be involved in UV-induced signal transduction. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Function	Tyrosine phosphatase which dephosphorylates or contributes to the dephosphorylation of CTNND1, FLT3, PDGFRB, MET, RET (variant MEN2A), KDR, LYN, SRC, MAPK1, MAPK3, EGFR, TJP1, OCLN, PIK3R1 and PIK3R2. Plays a role in cell adhesion, migration, proliferation and differentiation. Involved in vascular development. Regulator of macrophage adhesion and spreading. Positively affects cell-matrix adhesion. Positive regulator of platelet activation and thrombosis. Negative regulator of cell proliferation. Negative regulator of PDGF-stimulated cell migration; through dephosphorylation of PDGFR. Positive regulator of endothelial cell survival, as well as of VEGF-induced SRC and AKT activation; through KDR dephosphorylation. Negative regulator of EGFR signaling pathway; through EGFR dephosphorylation. Enhances the barrier function of epithelial junctions during reassembly. Negatively regulates T-cell receptor (TCR) signaling. Upon T-cell TCR activation, it is up-regulated and excluded from the immunological synapses, while upon T-cell-antigen presenting cells (APC) disengagement, it is no longer excluded and can dephosphorylate PLCG1 and LAT to down-regulate prolongation of signaling. [UniProt]
Calculated Mw	146 kDa
PTM	N- and O-glycosylated. [UniProt]
Cellular Localization	Cell junction; Cell membrane; Cell projection; Membrane; Secreted. [UniProt]

Images



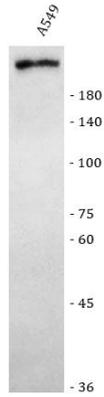
ARG45400 anti-CD148 / DEP1 antibody IHC-P image

Immunohistochemistry: Human rectal cancer stained with ARG45400 anti-CD148 / DEP1 antibody at 2 µg/ml dilution.



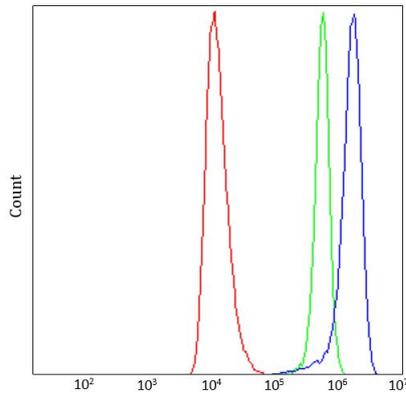
ARG45400 anti-CD148 / DEP1 antibody ICC/IF image

Immunofluorescence: Human liver cancer stained with ARG45400 anti-CD148 / DEP1 antibody at 5 $\mu\text{g/ml}$ dilution.



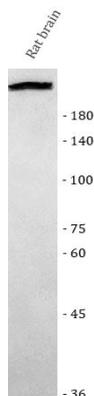
ARG45400 anti-CD148 / DEP1 antibody WB image

Western blot: A549 stained with ARG45400 anti-CD148 / DEP1 antibody at 0.5 $\mu\text{g/ml}$ dilution.



ARG45400 anti-CD148 / DEP1 antibody FACS image

Flow Cytometry: HEL stained with ARG45400 anti-CD148 / DEP1 antibody at 1 $\mu\text{g}/10^6$ cells dilution.



ARG45400 anti-CD148 / DEP1 antibody WB image

Western blot: Rat brain stained with ARG45400 anti-CD148 / DEP1 antibody at 0.5 $\mu\text{g/ml}$ dilution.