Datasheet for ABIN5541115

anti-PTPRJ antibody

Go to Product page

Overview

Quantity:	0.1 mg
Target:	PTPRJ
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PTPRJ antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP)

Product Details

Immunogen:	Human peripheral blood mononuclear cells
Clone:	#255
Isotype:	IgG2a
Specificity:	This antibody reacts with CD148 antigen.
Purification:	Protein A agarose

Target Details

Target:	PTPRJ
Alternative Name:	cd148,ptprj (PTPRJ Products)
Background:	< div dir=ltr data-font-name=Times data-canvas-width=123.78441365509033> CD148, also known as density-enhanced PTPase-1 (D EP-1), PTP receptor type J (PTPRJ), or HPTP-eta, is

Target Details

	single chain, type 1 glycoprotein (180 kDa in rat and mouse, 220-250 kDa in human) that acts as a tyrosine phosphatase. CD148 regulates a variety of cellular processes including cell growth, differentiation, mitosis, and oncogenic transformation. CD148 expression increases in fibroblast cultures grown to high density, suggesting a role in contact inhibition of cell growth. CD148 is widely expressed on granulocytes, monocytes, fibroblasts, epithelial cells, B and T cells, macrophages, and other lymphoid cell types. The CD148 gene is localized to 11p11.1, a region of chromosome 11 that is frequently deleted in breast, bladder and hepatocellular carcinomas.
UniProt:	Q12913
Pathways:	EGFR Signaling Pathway, Platelet-derived growth Factor Receptor Signaling

Application Details

Application Notes:	Immunoprecipitation: 2 µg/mL of cell extract from 5x 10 6 cells. Flow cytometry: 5 µg/mL (final concentration). For details see protocols below.
Protocol:	Flow cytometric analysis for floating cells We usually use Fisher tubes or equivalents as reaction tubes for all steps described below. 1) Wash the cells 3 times with washing buffer [PBS containing 2 % fetal calf serum (FCS) and 0.1 % NaN3]. 2) Resuspend the cells with washing buffer (5 x 10e6 cells/mL). 3) Add 50 µ L of the cell suspension into each tube, and centrifuge at 500 x g for 1 minute at room temperature (20~25 o C). Remove supernatant by careful aspiration. 4) Add 20 µ L of Clear Back (human Fc receptor blocking reagent) to the cell pellet after tapping. Mix well and incubate for 5 minutes at room temperature. 5) Add 40 µ L of the primary antibody at the concentration as suggested in the APPLICATIONS diluted in the washing buffer. Mix well and incubate for 30 minutes at room temperature. 6) Add 1 mL of the washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration. 7) Add 30 µ L of 1:100 FITC conjugated anti-mouse IgG diluted with the washing buffer. Mix well and incubate for 15 minutes at room temperature. 8) Add 1 mL of the washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration. 9) Resuspend the cells with 500 µ L of the washing buffer and analyze by a flow cytometer. (Positive control for Flow cytometry U937) Flow cytometric analysis for whole blood cells We usually use Falcon tubes or equivalents as reaction tubes for all steps described below. 1) Add 50 µ L of the primary antibody at the concentration as suggested in the APPLICATIONS diluted with the washing buffer [PBS containing 2 % fetal calf serum (FCS) and 0.1 % NaN] into each tube. 2) Add 100 µ L of whole blood into each tube. Mix well, and incubate for 30 minutes at room temperature (20~25 o C).

Application Details

	3) Add 1 mL of washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration. 4) Add 20 µ L of 1:100 PE conjugated anti-mouse IgG (H+L) diluted with washing buffer. Mix well and incubate for 15 minutes at room temperature. 5) Add 1 mL of washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove ix well and incubate for 15 minutes cedure recommended in the tube and incubate for 10 m temperature. temperature. Remove of the washing buffer and analyze by a flow cytometer. (Flow cytometry lymphocyte, monocyte, granulocyte)
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS containing 50 % glycerol, pH 7.2. No preservative is contained.
Preservative:	Azide free
Storage:	-20 °C
Storage Comment:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: One year from despatch.