Datasheet for ABIN1740992

anti-PTPRF antibody (AA 1315-1607) (Biotin)

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3 Images

Overview

Quantity:	100 µg
Target:	PTPRF
Binding Specificity:	AA 1315-1607
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PTPRF antibody is conjugated to Biotin
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Immunogen:	Fusion protein amino acids 1315-1607 (cytoplasmic C-terminus) of human LAR. 97% identical in both rat and mouse. >80% identity with PTPRD and PTPRS. >50% identity with PTPRM and PTPRK.
Clone:	S165-38
Isotype:	IgG2a
Specificity:	Detects ~85 kDa (full length protein is 210 kDa - smaller due to proteolysis into P-subunit containing transmembrane and intracellular domains.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	PTPRF
Alternative Name:	LAR (PTPRF Products)
Background:	PTPRF or leukocyte common antigen-related protein (LAR) is a widely expressed protein tyrosine phosphatase with an extracellular receptor region that resembles a cell adhesion molecule. PTPRF removes phosphate group from β-catenin, an event that may subsequently facilitate cell-cell adhesion and ensure the stability of the cadherin complex. This phosphatase has also been implicated in various cellular processes such as neurite growth, nerve regeneration, actin remodeling and regulation of insulin function (1,2,3,4). Anti-PTPRF (C-terminal) antibody is specific for the extracellular and cytoplasmic subunits of human PTPRF (approx. 210, 150 and 85 kDa). Detection of the PTPRF bands by immunoblotting is specifically inhibited by the immunizing peptide.
Gene ID:	5792
UniProt:	P10586
Pathways:	EGFR Signaling Pathway

Application Details

Application Notes:	• WB (1:1000) • optimal dilutions for assays should be determined by the user.
Comment:	1 µg/ml of ABIN1740992 was sufficient for detection of LAR/PTPRF in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

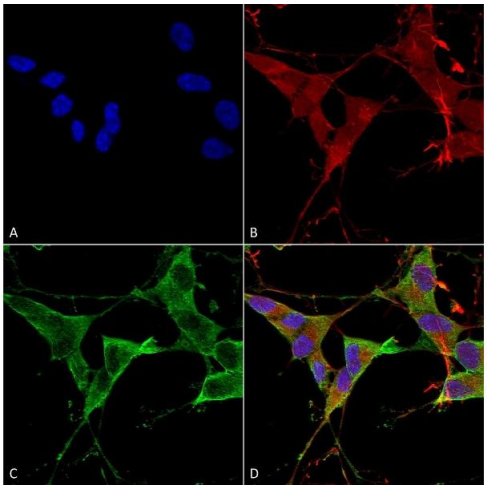
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.1 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C

Handling

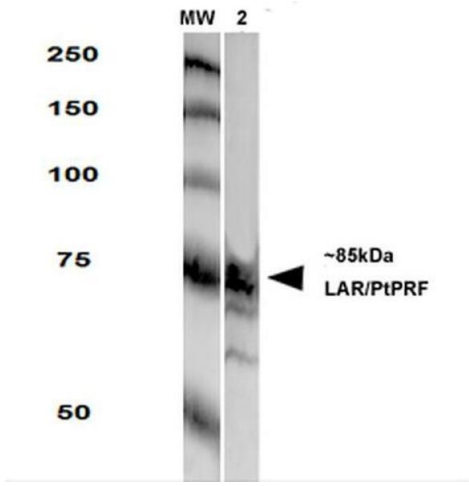
Storage Comment:	Conjugated antibodies should be stored at 4°C

Images



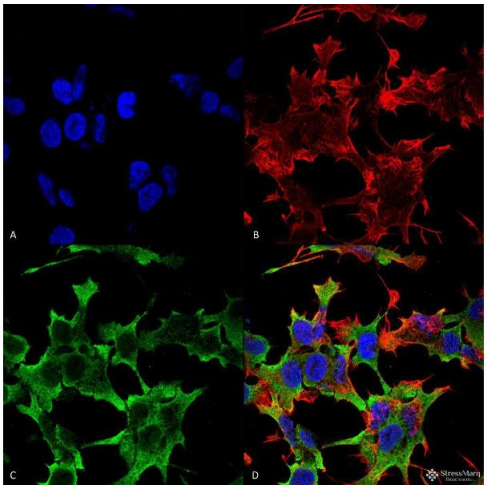
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-LAR/PTPRF Monoclonal Antibody, Clone S165-38 (ABIN1740992). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-LAR/PTPRF Monoclonal Antibody (ABIN1740992) at 1:100 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) LAR/PTPRF Antibody (D) Composite.



Western Blotting

Image 2. Western Blot analysis of Rat Brain Membrane showing detection of LAR protein using Mouse Anti-LAR Monoclonal Antibody, Clone S165-38 . Primary Antibody: Mouse Anti-LAR Monoclonal Antibody at 1:250.



Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-LAR/PTPRF Monoclonal Antibody, Clone S165-38 . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-LAR/PTPRF Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Membrane. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) LAR/PTPRF Antibody (D) Composite.