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Datasheet for 200-301-W57

LAR/PTPRF Antibody

Overview

Description:	Anti-LAR/PTPRF (MOUSE) Monoclonal Antibody - 200-301-W57
Item No.:	200-301-W57
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

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. Anti-PTPRF is ideal for researchers interested in Cell adhesion Cadherin-mediated cell adhesion pathways, PAK pathways, insulin resistance and ureterocele.
Synonyms:	Receptor-type tyrosine-protein phosphatase F, Leukocyte antigen related (LAR), FLJ43335, FLJ45062, FLJ45567, LAR, LAR protein, LARFN5C, LARS, LCA homolog, Leukocyte antigen related (LAR) PTP receptor, Leukocyte antigen related tyrosine phosphatase, Leukocyte common antigen related
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S165-38
Format:	IgG2a

Target Details

Gene Name:	LAR/PTPRF

Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-LAR/PTPRF Antibody was produced in mice by repeated immunizations of a fusion peptide consisting of amino acids 1315-1607 of human LAR.
Purity/Specificity:	Anti-LAR/PTPRF Antibody was purified from concentrated tissue culture supernate by Protein G chromatography. BLAST analysis suggests similarity with rat and mouse based on 97% homology with the immunizing sequence. In addition, the sequence was >80% identical to PTPRD and PTPRS, as well as >50% identical to PTPRM and PTPRK.
Relevant Links:	• UniProtKB - P10586 • GeneID - 5792

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-LAR/PTPRF Antibody is tested for use in Western blots and Immunocytochemistry. Expect a band approximately ~85 kDa on specific lysates or tissues. Full protein is 210 kDa; degrades due to proteolysis into p-subunit containing transmembrane and intracellular domains. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
WB:	1:1000

Formulation

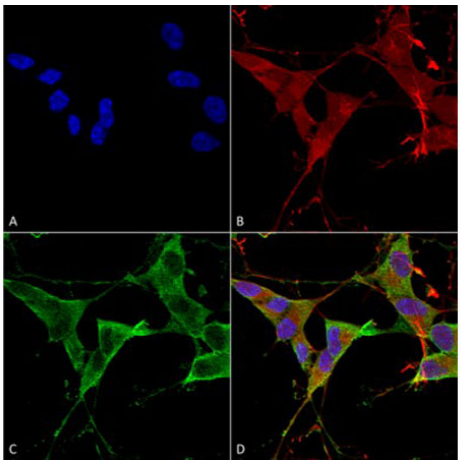
Physical State:	Liquid (sterile filtered)
Concentration:	1mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.1% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

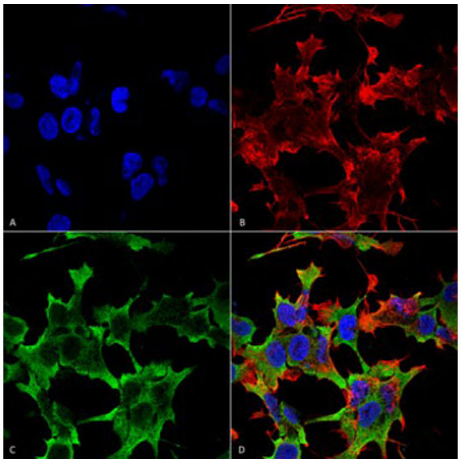
Shipping Condition:	Wet Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

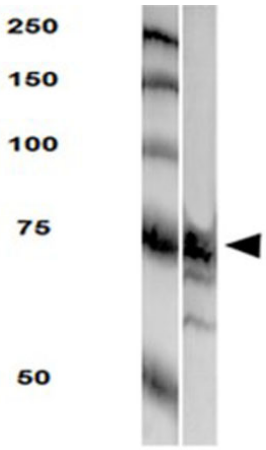
Images



Immunofluorescence Microscopy
Immunofluorescence of Mouse Anti-LAR/PTPRF Monoclonal Antibody.
Tissue: Neuroblastoma cells (SH-SY5Y).
Species: Human.
Fixation: 4% PFA for 15 min.
Primary Antibody: Mouse Anti-LAR/PTPRF Monoclonal Antibody at 1:100 for overnight at 4°C.
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, 1.6mM for 20 min at RT.
(A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) LAR/PTPRF Antibody (D) Composite.



Immunofluorescence Microscopy
Immunofluorescence of Mouse Anti-LAR/PTPRF.
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.



Western Blot
Western Blot of Anti-LAR.
Load: Rat Brain.
Primary Antibody: Mouse Anti-LAR Monoclonal Antibody at 1:250.

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