abcam

ab288663

PE Anti-LAR antibody [W7C6]

Anti-LAR antibody [W7C6] conjugated to PE - suitable for flow cytometry, and reacts with human samples. Clone [W7C6] is a mouse monoclonal antibody.

Design your panel with our interactive flow cytometry panel builder. Click here.

Key facts

Isotype	IgG1
Host species	Mouse
Conjugation	PE
Excitation/Emission	Ex: 480;565nm, Em: 578nm
Storage buffer	pH: 7.4 Preservative: 0.098% Sodium azide Constituents: PBS, 0.2% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing WERI-RB-1 cell line protein. The exact immunogen used to generate this antibody is proprietary information.
Clone number	W7C6
Purification technique	Size-exclusion chromatography
Specificity	The mouse monoclonal antibody W7C6 recognizes an extracellular epitope of protein tyrosine phosphatase LAR, a marker of mesenchymal stem cells.
Concentration	0.1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	2-5 g/mL
Notes	-

Predicted

Species	Primates
Dilution info	-
Notes	-

Target data

See full target information PTPRF

Function Possible cell adhesion receptor. It possesses an intrinsic protein tyrosine phosphatase activity (PTPase) and dephosphorylates EPHA2 regulating its activity. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Store in the dark

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary The protein LAR also known as Leukocyte Common Antigen-Related phosphatase is a receptor-like protein tyrosine phosphatase. It weighs approximately 220 kDa. LAR is expressed in various tissues including the nervous system and digestive tract. It comprises an extracellular domain a single transmembrane domain and

	two intracellular phosphatase domains which play a significant role in its interaction with other proteins.
Biological function summary	This receptor-like phosphatase supports important cell signaling functions. LAR is involved in neural development processes and is part of the synaptic adhesion complex. By interacting with proteins in the plasma membrane it helps modify and maintain neural connectivity necessary for proper nerve function. Its activity influences actin cytoskeleton dynamics and cell-cell adhesion.
Pathways	LAR plays a role in the axon guidance and insulin signaling pathways. In axon guidance it interacts with proteins such as netrin and nneural cell adhesion molecule (NCAM) to facilitate correct neural wiring. In the insulin signaling pathway LAR can dephosphorylate key proteins like insulin receptor affecting glucose metabolism and overall energy homeostasis.
Associated diseases and disorders	Research shows that LAR may be linked to diabetes and potential neurological disorders. In diabetes its interaction with the insulin receptor suggests a role in insulin resistance which is a major contributing factor in the disease. In neurological disorders LAR's dysregulation can affect neural development and function possibly linking it to diseases like schizophrenia where cell signaling and connectivity changes are observed.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

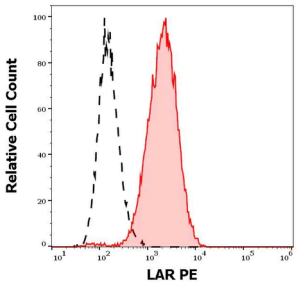
We do not recommend this combination. It is not covered by our product promise.

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In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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1 product image



Flow Cytometry - PE Anti-LAR antibody [W7C6] (ab288663)

LAR Flow Cytometry staining using mouse Anti-LAR antibody

Separation of HeLa cells stained using ab288663 (concentration in sample 0.5 µg/ml, red-filled) from HeLa cells stained using mouse IgG1 isotype control PE antibody (concentration in sample 0.5 µg/ml, black-dashed) in flow cytometry analysis (surface staining) of HeLa cell suspension.

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