SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-LAR antibody

Catalog Number: SL11530R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	LAR
Immunogen:	KLH conjugated synthetic peptide derived from human PTPRF: 30-100/1907 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	Flow-Cyt=1μg/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, (predicted: Mouse, Rat, Dog, Cow, Horse, Rabbit, Sheep)
Predicted MW.:	210kDa
Subcellular Location:	The cell membrane
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, a single transmembrane region, and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region contains three Ig-like domains, and nine non-Ig like domains similar to that of neural-cell adhesion molecule. This PTP was shown to function in the regulation of epithelial cell-cell contacts at adherents junctions, as well as in the control of beta-catenin signaling. An increased expression level of this protein was found in the insulin-responsive tissue of obese, insulin-resistant individuals, and may contribute to the pathogenesis of insulin resistance. Two alternatively spliced transcript variants of this gene, which encode

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	distinct proteins, have been reported. [provided by RefSeq, Jul 2008] **Function:** Possible cell adhesion receptor. It possesses an intrinsic protein tyrosine phosphatase activity. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. **Subunit:** Interacts with GRIP1. Interacts with PPFIA1, PPFIA2 and PPFIA3. Interacts with INSR. **Subcellular Location:** Membrane; Single-pass type I membrane protein. **Similarity:** Belongs to the protein-tyrosine phosphatase family. Receptor class 2A subfamily. Contains 8 fibronectin type-III domains. Contains 3 Ig-like C2-type (immunoglobulin-like) domains. Contains 2 tyrosine-protein phosphatase domains. **Database links:** **Entrez Gene:** 5792 Human **Entrez Gene:** 19268 Mouse **Entrez Gene:** 360406 Rat **Entrez Gene:** 12072 Cow Omim: 179590 Human **SwissProt:** P10586 Human **SwissProt:** Q5T021 Human **SwissProt:** Q5T022 Human **SwissProt:** Q86WS0 Human **SwissProt:** A2A8L5 Mouse **SwissProt:** Q9EQ17 Mouse **SwissProt:** Q64604 Rat **Unigene:** 272062 Human **Unigene:** 29855 Mouse **Unigene:** 11386 Rat

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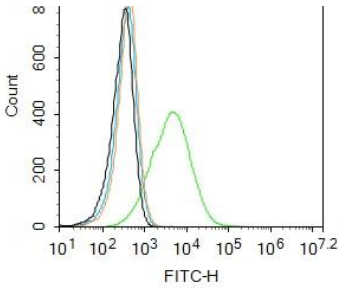
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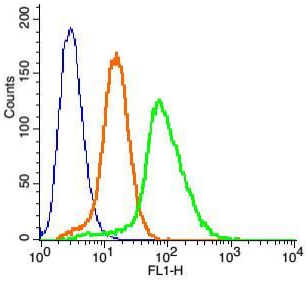
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[VALIDATION IMAGES]



Blank control:MCF7.
Primary Antibody (green line): Rabbit Anti-LAR antibody (SL11530R)
Dilution: 2μg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody : Goat anti-rabbit IgG-AF488
Dilution: 1μg /test.
Protocol
The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control(blue): Hela Cells(fixed with 2% paraformaldehyde (10 min)).
Primary Antibody: Rabbit Anti-LAR/AF488 Conjugated antibody (SL11530R-AF488), Dilution: 1μg in 100 μL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG/AF488(orange) ,used under the same conditions.

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