

Datasheet for ABIN968899

anti-SORL1 antibody (AA 1220-1337)

3 Images

3 Publications

[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	SORL1
Binding Specificity:	AA 1220-1337
Reactivity:	Human, Mouse, Rat, Blow Fly
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SORL1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Human LR11 aa. 1220-1337
Clone:	48-LR11
Isotype:	IgG2a
Cross-Reactivity:	Rat (Rattus), Mouse (Murine), Fruit Fly (Drosophila melanogaster)
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target:	SORL1
Alternative Name:	LR11 (SORL1 Products)
Background:	<p>The low-density lipoprotein receptor (LDLR) functions in lipoprotein transport pathways, and is involved in familial hypercholesterolemia. Homologues of the LDLR may have diverse functions and their ligands may include biological inactive plasma carrier complexes, plasma lipoproteins, yolk precursors, toxins, and extracellular lipoproteins. LR11 (also known as sorLA-1 and gp250) is a lipoprotein receptor homologue that contains 11 LDL receptor ligand binding repeats (LDLRs), 5 LDL receptor YWTD repeats, a large fibronectin-type III (FIII) hexarepeat domain similar to neural adhesion proteins, and a domain with similarity to the yeast receptor for vacuolar protein sorting (Vsp10p). LR11 mRNA is expressed at high levels in brain, but is also found in liver, pancreas, adrenal gland, and testis. LR11 can bind the ER and Golgi localized receptor associated protein (RAP), which binds to many members of the LDLR family and prevents aggregation of ligands to the LDLRs. In addition, LR11 binds apolipoprotein E-containing lipoproteins. Thus, LR11 is a lipoprotein binding receptor that may have additional functions related to protein sorting and neuronal development.</p> <p>Synonyms: SorLA, gp250, Lipoprotein Receptor-11</p>
Molecular Weight:	250 kDa
Pathways:	Smooth Muscle Cell Migration

Application Details

Comment:	Related Products: ABIN967389, ABIN968545
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide

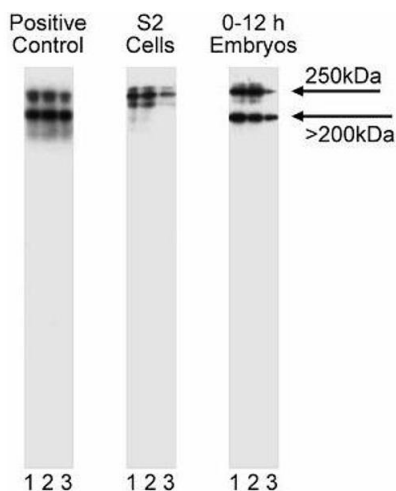
Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

Product cited in:	<p>Posse De Chaves, Vance, Campenot, Kiss, Vance: "Uptake of lipoproteins for axonal growth of sympathetic neurons." in: The Journal of biological chemistry, Vol. 275, Issue 26, pp. 19883-90, (2000) (PubMed).</p> <p>Jacobsen, Madsen, Moestrup, Lund, Tommerup, Nykjaer, Sottrup-Jensen, Gliemann, Petersen: "Molecular characterization of a novel human hybrid-type receptor that binds the alpha2-macroglobulin receptor-associated protein." in: The Journal of biological chemistry, Vol. 271, Issue 49, pp. 31379-83, (1997) (PubMed).</p> <p>Yamazaki, Bujo, Kusunoki, Seimiya, Kanaki, Morisaki, Schneider, Saito: "Elements of neural adhesion molecules and a yeast vacuolar protein sorting receptor are present in a novel mammalian low density lipoprotein receptor family member." in: The Journal of biological chemistry, Vol. 271, Issue 40, pp. 24761-8, (1996) (PubMed).</p>
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Images



Western Blotting

Image 1. Western blot analysis of gp250. Lysates from rat cerebrum (5 µg/lane), S2 cells (7.5 µg/lane), and 0-12 hours Drosophila embryos (7.5 µg/lane) were probed with anti-gp250 at concentrations of 0.5 µg/ml (lane 1), 0.25 µg/ml (lane 2), and 0.125 µg/ml (lane 3). Anti-gp250 detects a band of ~250 kDa in S2 cells and a 250 kDa plus a 200 kDa in rat cerebrum and Drosophila embryos.

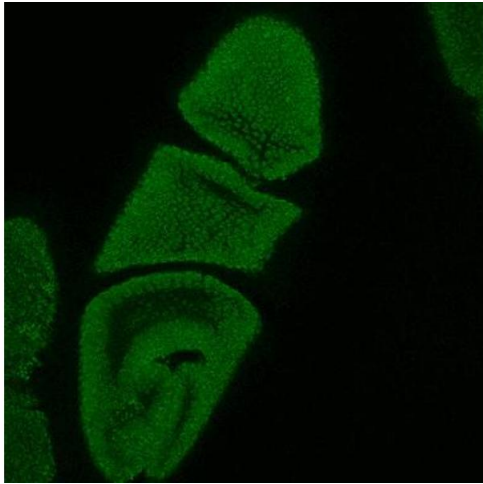


Image 2. gp250 immunochemical staining of 0-12 hour embryos. Formalin-fixed embryos kept in ethanol at -20°C, were re-hydrated and incubated with anti-gp250 at 1 µg/ml in TBST. After extensive washes to remove unbound antibody, gp250 signal was visualized with ALEXA fluor 488 secondary antibody (1/300) and confocal microscopy. gp250 staining is found throughout the the cellularizing embryo both in the cytoplasm and and somewhat higher levels in the nucleus.

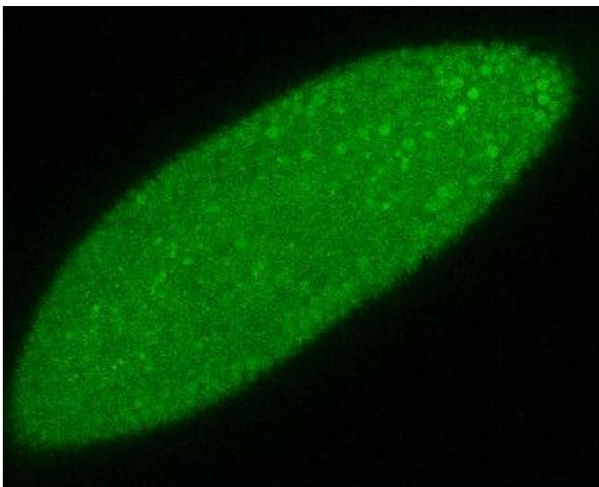


Image 3. In later stage embryos, gp250 staining is mostly nuclear.