

## Technical Data Sheet

## Purified Mouse Anti-LR11

## Product Information

<b>Material Number:</b>	<b>611861</b>
<b>Alternate Name:</b>	SorLA; gp250; Lipoprotein Receptor-11
<b>Size:</b>	150 µg
<b>Concentration:</b>	250 µg/ml
<b>Clone:</b>	48/LR11
<b>Immunogen:</b>	Human LR11 aa. 1220-1337
<b>Isotype:</b>	Mouse IgG2a
<b>Reactivity:</b>	QC Testing: Rat Tested in Development: Mouse, Human
<b>Target MW:</b>	250 kDa
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

## Description

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.



**Western blot analysis of LR11 on a rat cerebrum lysate.**  
Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti-LR11 antibody.

## Preparation and Storage

Store undiluted at -20°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Application Notes

## Application

Western blot	Routinely Tested
Immunofluorescence	Not Recommended

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**Recommended Assay Procedure:**

**Western blot:** Please refer to [http://www.bdbiosciences.com/pharmingen/protocols/Western\\_Blotting.shtml](http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml)

**Suggested Companion Products**

Catalog Number	Name	Size	Clone
611463	Rat Cerebrum Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

**Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) 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.

**References**

Jacobsen L, Madsen P, Moestrup SK. Molecular characterization of a novel human hybrid-type receptor that binds the alpha2-macroglobulin receptor-associated protein. *J Biol Chem.* 1996; 271(49):31379-31383.(Biology)  
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Yamazaki H, Bujo H, Kusunoki J. Elements of neural adhesion molecules and a yeast vacuolar protein sorting receptor are present in a novel mammalian low density lipoprotein receptor family member. *J Biol Chem.* 1996; 271(40):24761-24768.(Biology)