

#79322 Store at -20C

**SORL1 (D8D4G) Rabbit mAb****Cell Signaling**  
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M	Endogenous	250	Rabbit IgG	#Q92673	6653

**Product Usage Information****Application**

Western Blotting

**Dilution**

1:1000

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity / Sensitivity**

SORL1 (D8D4G) Rabbit mAb recognizes endogenous levels of total SORL1 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu267 of human SORL1 protein.

**Background**

SORL1, also called SorLA, is a 250 kDa type-1 membrane protein found in neurons of the central and peripheral nervous system (1). SORL1 is related to the yeast transporter Vps10p (2). While its exact function is unknown, because it shuttles between the Golgi apparatus and endolysosomal compartments, and given its structural similarity with Vps10p, it has been suggested that SORL1 acts in intracellular trafficking (3). Interestingly, SORL1 expression has been shown to be decreased in the brain of patients with Alzheimer's disease (4), and research studies have demonstrated a role for SORL1 as a neuronal sorting receptor that binds APP and regulates its trafficking and proteolytic processing, thus regulating the production of amyloid-beta peptides (5).

**Background References**

1. Yamazaki, H. et al. (1996) *J Biol Chem* 271, 24761-8.
2. Marcusson, E.G. et al. (1994) *Cell* 77, 579-86.
3. Jacobsen, L. et al. (2002) *FEBS Lett* 511, 155-8.
4. Scherzer, C.R. et al. (2004) *Arch Neurol* 61, 1200-5.
5. Andersen, O.M. et al. (2005) *Proc Natl Acad Sci U S A* 102, 13461-6.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key****WB:** Western Blotting**Cross-Reactivity Key**

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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