DATASHEET

Sortilin Rabbit Monoclonal Antibody(C4072)

CAT. NO. AMA03892

KEY FEATURES

Target	Sortilin	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Monoclonal
Applications	WB,IHC,IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.	Storage	at -20°C

BACKGROUND

Sortilin (SORT1) is a protein that in humans is encoded by the SORT1 gene on chromosome 1. This protein is a type I membrane glycoprotein in the vacuolar protein sorting 10 protein (Vps10p) family of sorting receptors. While it is ubiquitously expressed in many tissues, sortilin is most abundant in the central nervous system. At the cellular level, sortilin functions in protein transport between the Golgi apparatus, endosome, lysosome, and plasma membrane, leading to its involvement in multiple biological processes such as glucose and lipid metabolism as well as neural development and cell death. Moreover, the function and role of sortilin is now emerging in several major human diseases such as hypertension, atherosclerosis, coronary artery disease, Alzheimer’ s disease, and cancer. The SORT1 gene also contains one of 27 loci associated with increased risk of coronary artery disease.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:50 - 1:200
IF/ICC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	Recombinant rabbit monoclonal antibody to Sortilin
Specificity	Recognizes endogenous levels of Sortilin protein
Antibody Type	Primary antibody, Recombinant
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within human Sortilin protein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 92 kD; Observed: 100 kD
Form/Buffer	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Alternative Names	Sortilin; 100 kDa NT receptor; Glycoprotein 95; Gp95; Neurotensin receptor 3; NT3; NTR3
Gene Symbol	SORT1
Entrez Gene	6272(Human);20661(Mouse);83576(Rat);
SwissProt	Q99523(Human);Q6PHU5(Mouse);O54861(Rat);

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

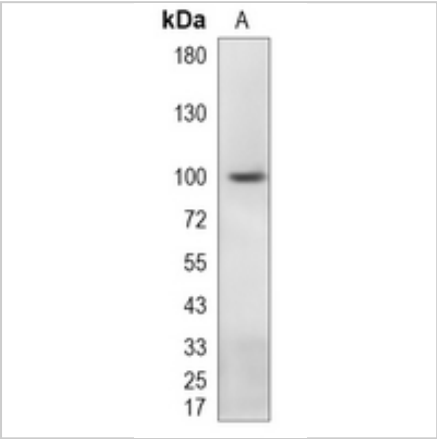
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET

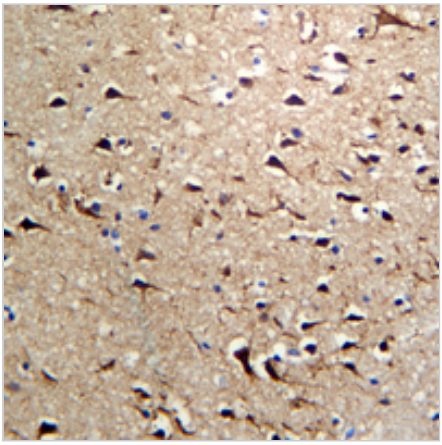
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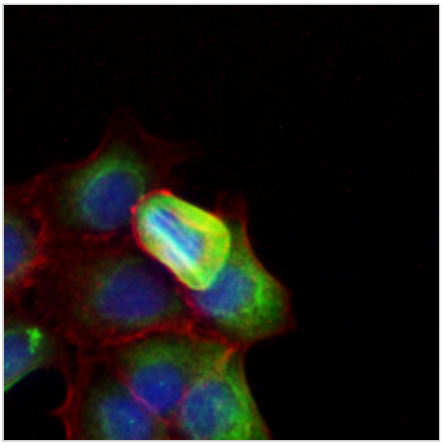
DATA



Western blot analysis of Sortilin expression in SHSY5Y (A) whole cell lysates. (Predicted band size: 92 kD; Observed band size: 100 kD)



Immunohistochemical analysis of Sortilin staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Sortilin staining in SHSY5Y cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with an AREX® Flour488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AREX® Flour594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com