

Human/Mouse/Rat Sortilin Antibody

Monoclonal Mouse IgG₁ Clone # 334708

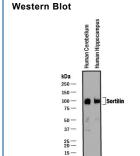
Catalog Number: MAB3154

DESCRIPTION			
Species Reactivity	Human/Mouse/Rat		
Specificity	Detects human, mouse, and rat Sortilin in Western blots.		
Source	Monoclonal Mouse IgG ₁ Clone # 334708		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Sortilin Ser78-Asn755 Accession # Q99523		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

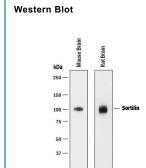
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website

	Recommended Concentration	Sample
Western Blot	0.25-1 μg/mL	See Below
Simple Western	10 μg/mL	See Below
Knockout Validated	Sortilin is specifically detected in HeLa human cervical epithelial carcinoma parental cell line but is not detectable in Sortilin knockout HeLa cell line.	

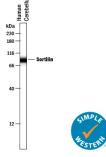


Detection of Human Sortilin by Western Blot. Western blot shows lysates of human brain (cerebellum) tissue and human brain (hippocampus) tissue. PVDF membrane was probed with 0.25 µg/mL of Mouse Anti-Human/Mouse/Rat Sortilin Monoclonal Antibody (Catalog # MAB3154) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Sortilin at approximately 95-105 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer



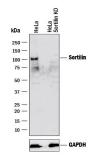
Detection of Mouse and Rat Sortilin by Western Blot. Western blot shows lysates of mouse brain tissue and rat brain tissue. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human/Mouse/Rat Sortilin Monoclonal Antibody (Catalog # MAB3154) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Sortilin at approximately 100 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.





Detection of Human Sortilin by Simple WesternTM. Simple Western lane view shows lysates of human brain (cerebellum) tissue, loaded at 0.2 mg/mL. A specific band was detected for Sortilin at approximately 87 kDa (as indicated) using 10 $\mu g/mL$ of Mouse Anti-Human/Mouse/Rat Sortilin Monoclonal Antibody (Catalog # MAB3154) This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

Knockout Validated



Western Blot Shows Human Sortilin Specificity by Using Knockout Cell Line. Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and Sortilin knockout HeLa cell line (KO). PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human/Mouse/Rat Sortilin Monoclonal Antibody (Catalog # MAB3154) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Sortilin at approximately 100 kDa (as indicated) in the parental HeLa cell line, but is not detectable in knockout HeLa cell line. GAPDH (Catalog # MAB5718) is shown as a loading control. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. Shipping

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

Rev. 6/29/2018 Page 1 of 2



Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 Europe | Middle East | Africa TEL +44 (0)1235 529449



Human/Mouse/Rat Sortilin Antibody

Monoclonal Mouse IgG₁ Clone # 334708 Catalog Number: MAB3154

BACKGROUND

Sortilin, also known as neurotensin receptor 3, is a 100 kDa transmembrane receptor that is localized both in the endosomal compartment and on plasma membranes. It contains an extracellular/lumenal Vps10p (vacuolar protein-sorting 10 protein) domain and is one of five known members of the mammalian Vps10p-D receptor family. A Sortilin propeptide, cleaved by a furin, blocks premature ligand binding to uncleaved Sortilin and functions as a chaperone to facilitate trafficking in the Golgi compartments. Sortilin binds multiple ligands and has diverse functions. Mature human Sortilin extracellular domain shares 92% and 91% amino acid sequence identity with that of mouse and rat Sortilin, respectively.

Rev. 6/29/2018 Page 2 of 2

