Human LRP-1 Cluster II Antibody

Monoclonal Mouse IgG_{2B} Clone # 1034124

Catalog Number: MAB2368

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LRP-1 Cluster II in ELISA and Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 1034124
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived human LRP-1 Cluster II Gln4449-Ala4544 Accession # Q07954
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.

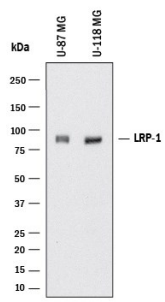
APPLICATIONS

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	2 µg/mL	U-87 MG human glioblastoma/astrocytoma cell line and U-118-MG human glioblastoma/astrocytoma cell line
Immunohistochemistry	5-25 µg/mL	Immersion fixed paraffin-embedded sections of human brain (cortex)

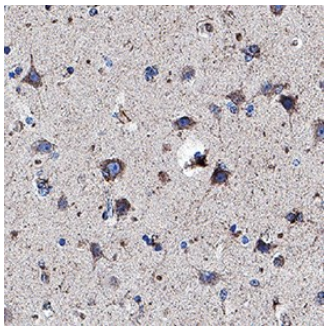
DATA

Western Blot



Detection of Human LRP-1 Cluster II by Western Blot. Western blot shows lysates of U-87 MG human glioblastoma/astrocytoma cell line and U-118-MG human glioblastoma/astrocytoma cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human LRP-1 Cluster II Monoclonal Antibody (Catalog # MAB2368) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for LRP-1 Cluster II at approximately 85 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

Immunohistochemistry



LRP-1 Cluster II in Human Brain (Cortex). LRP-1 Cluster II was detected in immersion fixed paraffin-embedded sections of human brain (cortex) using Mouse Anti-Human LRP-1 Cluster II Monoclonal Antibody (Catalog # MAB2368) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in neurons. Staining was performed using our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *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.

BACKGROUND

LRP-1 (low-density lipoprotein receptor-related protein 1) is a large type I transmembrane protein belonging to the LDL receptor superfamily. The extracellular domain of LRP-1 is organized in four clusters of ligand-binding repeats that recognizes at least 30 different ligands. The amino acid sequence of human and mouse LRP-1 cluster II share 100% identity. LRP-1 is an endocytic receptor involved in endocytosis and in phagocytosis of apoptotic cells. It plays a crucial role in early embryonic development.

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