Human Stabilin-1 Antibody

Monoclonal Mouse IgG_{2B} Clone # 840449

Catalog Number: MAB3825

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Stabilin-1 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 840449
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Stabilin-1 Gly2208-Val2305 Accession # Q9NY15
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 as a 0.2 μm filtered solution in PBS.

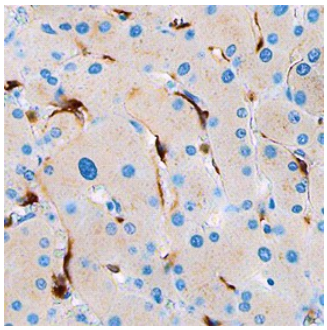
APPLICATIONS

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
Immunohistochemistry	8-25 µg/mL	See Below

DATA

Immunohistochemistry



Stabilin-1 in Human Liver. Stabilin-1 was detected in immersion fixed paraffin-embedded sections of human liver using Mouse Anti-Human Stabilin-1 Monoclonal Antibody (Catalog # MAB3825) at 15 µg/mL overnight at 4 °C. 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 the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to endothelial cells in bile canaliculi. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

Stabilin-1, also known as FEEL-1 (fasciclin, EGF-like, laminin type EGF-like, and link domain containing scavenger receptor-1) and CLEVER-1 (common lymphatic endothelial and vascular endothelial receptor-1), was originally identified as the MS-1 antigen. It is a type I transmembrane multi-domain protein with a large extracellular domain that contains 7 fasciclin domains, multiple EGF-like and laminin type EGF-like domains, and a link domain. The short cytoplasmic tail interacts with cargo adaptors that link cargo into the clathrin-coated pits (CGAs). Stabilin-1 is expressed by tissue macrophages and sinusoidal endothelial cells, which are scavenging cells. Stabilin-1 is involved in intracellular trafficking pathways and binds multiple ligands, including acetylated LDL, SPARC, AGE, and SI-CLP. An alternatively spliced, soluble, 803 amino acid (aa) Stabilin-1 that diverges after aa 746 has been identified. Within the region used as immunogen, human Stabilin-1 shares 83% and 84% amino acid sequence homology with mouse and canine Stabilin-1, respectively.

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