

Human Stabilin-2 Antibody

Monoclonal Mouse IgG_{2B} Clone # 841101 Catalog Number: MAB3645

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Stabilin-2 in ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Stabilin-1 or recombinant mouse Stabilin-2 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 841101
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human Stabilin-2 Gly2198-Val2295 Accession # Q8WWQ8
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.

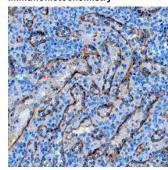
APPLICATIONS

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
Immunohistochemistry	8-25 μg/mL	See Below

DATA

Immunohistochemistry



Stabilin-2 in Human Spleen. Stabilin-2 was detected in immersion fixed paraffinembedded sections of human spleen using Mouse Anti-Human Stabilin-2 Monoclonal Antibody (Catalog # MAB3645) at 15 µg/mL overnight at 4 °C. 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 epithelial cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PF	REP	'AR	ATIC)N A	ND	STO	RAGE	

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

ShippingThe 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

- 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. 2/7/2018 Page 1 of 2





Human Stabilin-2 Antibody

Monoclonal Mouse IgG_{2B} Clone # 841101 Catalog Number: MAB3645

BACKGROUND

Stabilin-2, also known as HARE (hyaluronan receptor for endocytosis) and FEEL-2 (fasciclin, EGF-like, laminin type EGF-like, and link domain containing scavenger receptor 2), is a type I transmembrane multi-domain protein that is the closest homolog of stabilin-1 (1, 2). It is a scavenger receptor that is expressed on sinusoidal endothelial cells of liver, spleen, and lymph node (1, 2). Its 2439 amino acid (aa) extracellular domain contains seven fasciclin domains, multiple EGF-like and laminin type EGF-like domains, and a link domain related to molecules of the TSG-6 superfamily (3). The 72 aa cytoplasmic tail of Stabilin-2 contains a motif that allows the AP2 classical cargo adaptor to direct cargo into clathrin-coated pits (4). As a recycling receptor, Stabilin-2 cycles from the membrane to clathrin-coated pits each 10-15 minutes, with about two thirds of the protein found within the endocytic system at any one time (4). The link domain binds and mediates the systemic clearance of hyaluronan (HA) (2-6). Within the link domain (aa 2198-2295), human Stabilin-2 shares 86% and 89% aa identity with mouse and rat Stabilin-2, respectively. Total human HA is about 15 grams, of which about 5 grams are cleared each day (5). Stabilin-2 also mediates the endocytosis of chondroitin sulfate, advanced glycosylation end-product (AGE), collagen N-terminal propeptides and acetylated LDL (4-7). Human Stabilin-2 mRNA encodes a 2251 aa, 315 kDa protein that produces an isoform of 190 kDa through proteolytic cleavage (2, 6). The 190 kDa form lacks some N-terminal fasciclin and EGF-like domains, but shows similar activities when compared with the 315 kDa form (2, 6).

References:

- 1. Politz, O. et al. (2002) Biochem. J. 362:155.
- Zhou, B. et al. (2003) Glycobiology 13:339.
- Blundell, C.D. et al. (2005) J. Biol. Chem. 280:18189.
- Hansen, B. et al. (2005) Exp. Cell Res. 303:160.
- 5. Harris, E.N. et al. (2004) J. Biol. Chem. 279:36201.
- 6. Harris, E.N. et al. (2007) J. Biol. Chem. 282:2785.
- 7. Tamura, Y. et al. (2003) J. Biol. Chem. 278:12613