Human Stabilin-2 Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 841101

Catalog Number: FAB3645S

100 µg

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
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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 and 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).

PRODUCT SPECIFIC NOTICES

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