



## ***Biotinylated Anti-human Stabilin-2 Antibody***

### **ORDERING INFORMATION**

**Catalog Number:** BAF3645

**Lot Number:** XYL01

**Size:** 50 µg

**Formulation:** 0.2 µm filtered solution in PBS with BSA

**Storage:** -20° C

**Reconstitution:** sterile 0.1% BSA in TBS

**Specificity:** human Stabilin-2

**Immunogen:** *E. coli*-derived rhStabilin-2 (aa 2198 - 2295)

**Ig Type:** sheep IgG

**Application:** Western blot

### ***Preparation***

Produced in sheep immunized with purified, *E. coli*-derived, recombinant human Stabilin-2 link domain (rhStabilin-2; aa 2198 - 2295; Accession # Q8WWQ8). Human Stabilin-2 specific IgG was purified by human Stabilin-2 affinity chromatography and then biotinylated. Stabilin-2, also known as HARE (hyaluronan receptor for endocytosis) and FEEL-2, is a type I transmembrane multi-domain protein that is the closest homolog of Stabilin-1. Its large extracellular domain contains seven fasciclin, multiple EGF-like, laminin type EGF-like, and a link domain. The short cytoplasmic tail of Stabilin-2 lacks the CGA interactive motif found in Stabilin-1. Instead, it contains a motif for the classical cargo adaptor, AP2. Stabilin-2 is a scavenger receptor that is expressed in the sinusoidal endothelial cells of liver, spleen, and lymph nodes. It binds and mediates the systemic clearance of hyaluronan, AGE, collagen N-terminal propeptides and acetylated LDL. By proteolytic cleavage, two isoforms (315 kDa and 190 kDa) with similar activities can be generated. Over the region used as immunogen, human and mouse Stabilin-2 share 86% amino acid sequence identity.

### ***Formulation***

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

### ***Reconstitution***

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

### ***Storage***

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### ***Specificity***

This antibody has been selected for use as a detection antibody in human Stabilin-2 Western blots.

### ***Application***

**Western Blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human Stabilin-2. The detection limit for rhStabilin-2 is approximately 10 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows less than 1% cross-reactivity with rhStabilin-1.

**Optimal dilutions should be determined by each laboratory for each application.**