

DESCRIPTION

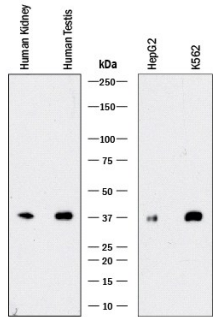
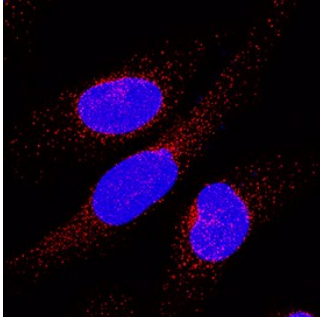
Species Reactivity	Human
Specificity	Detects human SEC13 in direct ELISAs and Western blots.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1280A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human SEC13 Gly123-Gln322 Accession # P55735
Formulation	Supplied as a solution in PBS containing BSA, Glycerol and Sodium Azide. 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
Western Blot	0.1 µg/mL	See Below
Immunocytochemistry	0.3-25 µg/mL	See Below

DATA

<p>Western Blot</p> 	<p>Detection of SEC13 by Western Blot. Western blot shows lysates of human kidney tissue, human testis tissue, HepG2 human hepatocellular carcinoma cell line, and K562 human chronic myelogenous leukemia cell line. PVDF membrane was probed with 0.1 µg/mL of Rabbit Anti-Human SEC13 Monoclonal Antibody (Catalog # MAB9055) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for SEC13 at approximately 37 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>SEC13 in HeLa Human Cell Line. SEC13 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Rabbit Anti-Human SEC13 Monoclonal Antibody (Catalog # MAB9055) at 0.3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm and nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
---	---	--

PREPARATION AND STORAGE

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. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 °C, as supplied. ● 1 month, 2 to 8 °C under sterile conditions after opening. ● 6 months, -20 to -70 °C under sterile conditions after opening.

BACKGROUND

Sec13 is a ubiquitously expressed protein which participates in the formation of vesicles in the COPII complex with Sec23p-Sec24p, Sar1p and Sec31. The COPII vesicle budding complex was first described in the yeast system and was shown to provide coat proteins in the early secretory pathway. Sec13 is recruited to endoplasmic reticulum (ER) membranes where it forms a three dimensional cuboctahedron cage lattice structure by association with Sec31. This vesicular structure is necessary for ER-Golgi transport. Presenilin-1, which is implicated in early-onset Alzheimer's disease has been shown to interact with Sec13 vesicles. Additionally, Sec13 has been shown to be a component of the Y-shaped Nup107-160 subcomplex of the nuclear pore complex (NPC), and the GATOR2 sub-complex of the GATOR complex.

PRODUCT SPECIFIC NOTICES

* Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to SDS for additional information and handling instructions.