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KD-Validated Anti-Stomatin Like 2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1703

Specification

KD-Validated Anti-Stomatin Like 2 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q9UJZ1
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 39 kDa, observed, 36 kDa KDa**
Gene Name	**STOML2**
Aliases	**STOML2; Stomatin Like 2; SLP-2; HSPC108; Stomatin-Like Protein 2, Mitochondrial; Stomatin (EPB72)-Like 2; EPB72-Like Protein 2; Paraprotein Target 7; EPB72-Like 2; Paratarg-7; SLP2**
Immunogen	**A synthesized peptide derived from human Stomatin like 2**

KD-Validated Anti-Stomatin Like 2 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**30968**

Other Names
Stomatin-like protein 2, mitochondrial, SLP-2, EPB72-like protein 2, Paraprotein target 7, Paratarg-7, STOML2, SLP2

KD-Validated Anti-Stomatin Like 2 Rabbit Monoclonal Antibody - Protein Information

Name STOML2

Synonyms SLP2

Function
Mitochondrial protein that probably regulates the biogenesis and the activity of mitochondria. Stimulates cardiolipin biosynthesis, binds cardiolipin-enriched membranes where it recruits and stabilizes some proteins including prohibitin and may therefore act in the organization of functional microdomains in mitochondrial membranes. Through regulation of the mitochondrial function may play a role into several biological processes including cell migration, cell proliferation, T-cell activation, calcium homeostasis and cellular response to stress. May play a role in calcium homeostasis through negative regulation of calcium efflux from mitochondria. Required for mitochondrial hyperfusion a pro-survival cellular response to stress which results in increased ATP production by mitochondria. May also regulate the organization of functional domains at the plasma membrane and play a role in T-cell activation through association with the T- cell receptor signaling complex and its regulation.

Cellular Location

Cell membrane; Peripheral membrane protein. Mitochondrion. Mitochondrion inner membrane; Lipid-anchor. Mitochondrion intermembrane space. Membrane raft. Cytoplasm, cytoskeleton Note=Behaves as an integral membrane protein of the mitochondrion despite the absence of a detectable transmembrane domain (PubMed:21746876). Also associates with the actin cytoskeleton and membrane rafts in activated T-cells (PubMed:10713127, PubMed:18641330) A minor pool is associated with the plasma membrane and is enriched at the immunological synapse in activated T-cells (PubMed:22623988)

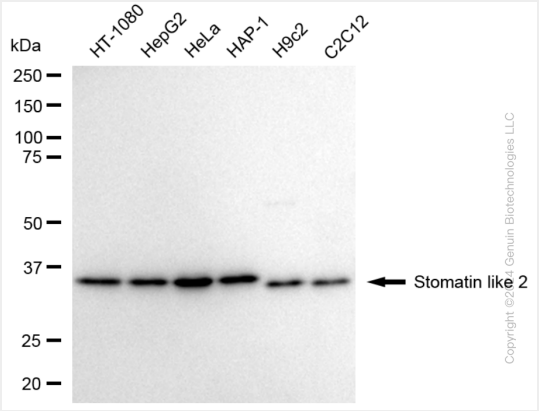
Tissue Location
Ubiquitously expressed at low levels. Expressed in lymphoid tissues (at protein level).

KD-Validated Anti-Stomatin Like 2 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Stomatin Like 2 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Stomatin like 2 antibody (Cat#AGI1703). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Stomatin like 2 antibody (Cat#AGI1703, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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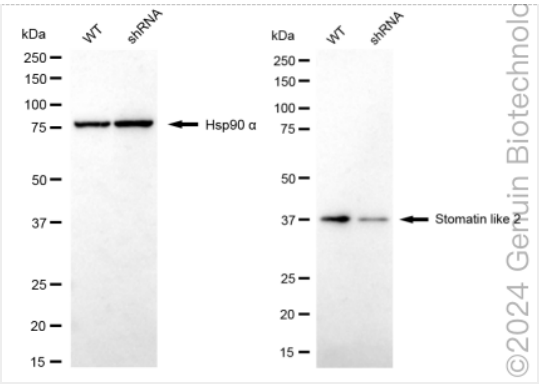
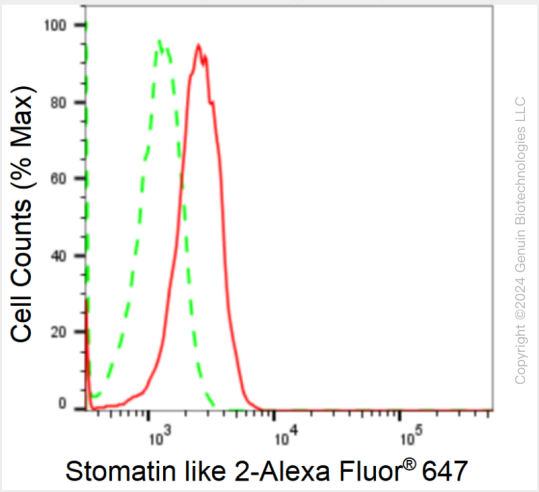
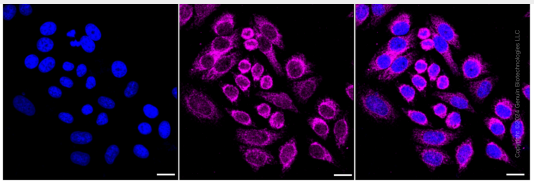


Western blotting analysis using anti-Stomatin like 2 antibody (Cat#AGI1703). Stomatin like 2 expression in wild type (WT) and Stomatin like 2 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Stomatin like 2 antibody (Cat#AGI1703, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Stomatin like 2 expression in HepG2 cells using anti-Stomatin like 2 antibody (Cat#AGI1703, 1:2,000). Green, isotype control; red, Stomatin like 2.



Immunocytochemical staining of HepG2 cells with anti-Stomatin like 2 antibody (Cat#AGI1703, 1:1,000). Nuclei were stained blue with DAPI; Stomatin like 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.