

SRP54 polyclonal antibody

Catalog: BS91281

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

SRP54, a component of the signal recognition particle (SRP), recognizes the signal peptide of secretory proteins and interacts with the signal recognition particle receptor to target the ribosome and the associated nascent chain to the endoplasmic reticulum. By functional analysis showed that SRP54 binds to SRP RNA via the M-domain, but only in the presence of RNA-bound SRP19, and that it associates with the signal peptide of nascent polypeptide chains. RNA interaction requires the presence of a loop in the C-terminal M-domain. Signal peptide recognition most likely involves methionine-rich loops. During signal peptide recognition, SRP54 is positioned at the exit site close to ribosomal proteins L23a (602326) and L35. When SRP54 contacts the signal recognition particle receptor (182180), SRP54 is rearranged such that it is no longer close to L23a. This repositioning may allow the translocon to dock with the ribosome, leading to insertion of the signal peptide into the translocation channel.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

56 kDa

Swiss-Prot:

P61011 Human;P14576 Mouse;Q6AYB5 Rat

Purification&Purity:

Protein A purified.

Applications:

WB:1:500

IP:1:10-1:50

IHC:1:50-1:200

FC:1:50-1:100

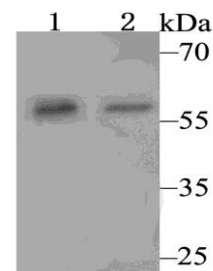
Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C. Avoid repeated freeze / thaw cycles.

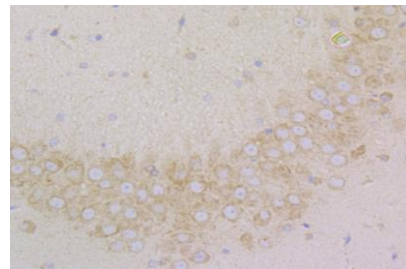
Specificity:

SRP54 polyclonal antibody detects endogenous levels of SRP54 protein.

DATA:



Western blot analysis of SRP54 on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody was used at a 1:500 dilution in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:5,000 dilution was used for 1 hour at room temperature. Positive control: Lane 1: HepG2 Lane 2: MCF-7



Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-SRP54 antibody. The section was pre-treated using heat-mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with ET7109-32 at 1/200 dilution, for 30 minutes at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. Counter stained with hematoxylin and mounted with DPX.

Note:

For research use only, not for use in diagnostic procedure.

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