

Anti-SKI-1 antibody



Description Rabbit polyclonal to SKI-1.

Model STJ95674

Host Rabbit

Reactivity Human, Mouse, Rat

Applications ELISA, WB

Immunogen Synthesized peptide derived from human SKI-1

Immunogen Region 180-260 aa, C-terminal

Gene ID <u>8720</u>

Gene Symbol MBTPS1

Dilution range WB 1:500-1:2000ELISA 1:10000

Specificity SKI-1 Polyclonal Antibody detects endogenous levels of SKI-1 protein.

Tissue Specificity Widely expressed.

Purification The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Note For Research Use Only (RUO).

Protein Name Membrane-bound transcription factor site-1 protease Endopeptidase S1P

Subtilisin/kexin-isozyme 1 SKI-1

Molecular Weight 20 kDa

Clonality Polyclonal

Conjugation Unconjugated

Isotype IgG

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Concentration 1 mg/ml

Storage Instruction Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links <u>HGNC:15456OMIM:603355</u>

Alternative Names Membrane-bound transcription factor site-1 protease Endopeptidase S1P

Subtilisin/kexin-isozyme 1 SKI-1

Function Serine protease that catalyzes the first step in the proteolytic activation of the

sterol regulatory element-binding proteins (SREBPs). Other known substrates are BDNF, GNPTAB and ATF6. Cleaves after hydrophobic or small residues, provided that Arg or Lys is in position P4. Cleaves known substrates after Arg-Ser-Val-Leu (SERBP-2), Arg-His-Leu-Leu (ATF6), Arg-Gly-Leu-Thr (BDNF) and its own propeptide after Arg-Arg-Leu-Leu. Mediates the protein cleavage of GNPTAB into subunit alpha and beta, thereby participating in

biogenesis of lysosomes.

Cellular Localization Endoplasmic reticulum membrane Golgi apparatus membrane. May sort to

other organelles, including lysosomal and/or endosomal compartments.

Post-translational The 148 kDa zymogen is processed progressively into two membrane-bound

120 and 106 kDa forms in the endoplasmic reticulum, and late into a secreted

98 kDa form. The propeptide is autocatalytically removed through an

intramolecular cleavage after Leu-186. Further cleavage generates 14, 10, and

8 kDa intermediates.

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Modifications

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