10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SKI2W Antibody

Catalog # ASC11860

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q15477
Other Accession	NP_008860, 67782311
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	137755
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	SKI2W antibody can be used for detection of SKI2W by Western blot at 1 - 2 g/ml. Antibody can also be used for immunohistochemistry starting at 5 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	6499
Other Names	Helicase SKI2W, Ski2, 3.6.4.-, Helicase-like protein, HLP, SKIV2L, DDX13, SKI2W, SKIV2, W
Target/Specificity	SKIV2L; SKI2W antibody is human, mouse and rat reactive. At least two isoforms of SKI2W are known to exist; this antibody will detect both isoforms.
Reconstitution & Storage	SKI2W antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.
Precautions	SKI2W Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SKIC2 (HGNC:10898)
Function	Helicase component of the SKI complex, a multiprotein complex that assists the RNA-degrading exosome during the mRNA decay and quality-control pathways (PubMed:16024656, PubMed:32006463, PubMed:35120588). The SKI complex catalyzes mRNA extraction from 80S ribosomal complexes in the 3'-5' direction and channels mRNA to the cytosolic exosome for degradation (PubMed:32006463, PubMed:35120588). SKI-mediated extraction of mRNA from stalled ribosomes allow binding of the Pelota-HBS1L complex and subsequent ribosome disassembly by ABCE1 for ribosome recycling (PubMed:32006463). In the nucleus, the SKI complex associates with transcriptionally active genes in a manner dependent on PAF1 complex

(PAF1C) (PubMed:16024656). May play a role in the non-stop mRNA decay pathway (NSD), which specifically targets and degrades mRNAs that lack a proper stop codon (PubMed:40441874).

Cellular Location Nucleus. Cytoplasm

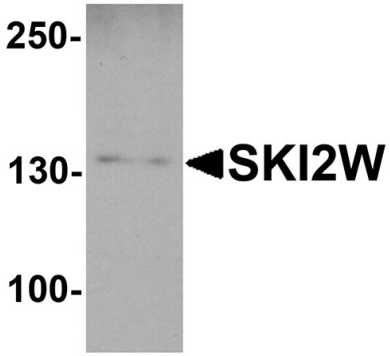
Background

SKI2W (SKIV2L, Helicase-like protein), a DEVH-box protein, is a component of the SKI complex which is involved in the regulation of translation and RNA turnover (1,2). SKI2W is a nucleolar and cytoplasmic protein that has a putative RNA helicase domain (2). The potential roles of Ski2W on the clearance of degraded nuclear and cytoplasmic RNA raised their possibilities as susceptibility genes of systemic lupus erythematosus (3,4).

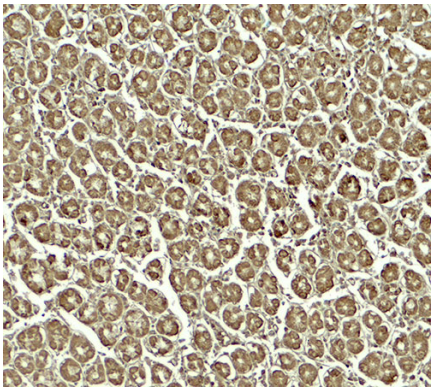
References

Dangel AW, Shen L, Mendoza AR, et al. Human helicase gene SKI2W in the HLA class III region exhibits striking structural similarities to the yeast antiviral gene SKI2 and to the human gene KIAA0052: emergence of a new gene family. Nucleic Acids Res. 1995; 23:2120-6.
Qu X, Yang Z, Zhang S, et al. The human DEVH-box protein Ski2w from the HLA is localized in nucleoli and ribosomes. Nucleic Acids Res. 1998; 26:4068-77.
Yang Z, Shen L, Dangel AW, et al. Four ubiquitously expressed genes, RD (D6S45)-SKI2W (SKIV2L)-DOM3Z-RP1 (D6S60E), are present between complement component genes factor B and C4 in the class III region of the HLA. Genomics 1998; 53:338-47.
Yang Z, Qu X, and Yu CY. Features of the two gene pairs RD-SKI2W and DOM3Z-RP1 located between complement component genes factor B and C4 at the MHC class III region. Front. Biosci. 2001; 6:D927-35.

Images

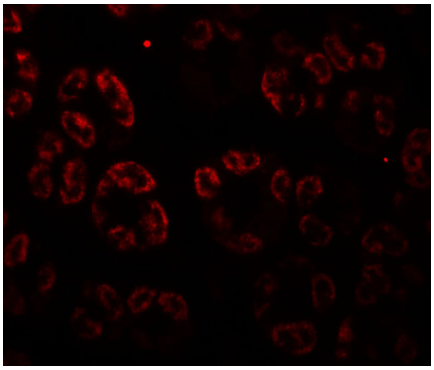


Western blot analysis of SKI2W in mouse stomach tissue lysate with SKI2W antibody at 1 µg/ml.



Immunohistochemistry of SKI2W in human stomach tissue with SKI2W antibody at 5 µg/ml.

Immunofluorescence of SKI2W in human stomach tissue



with SKI2W antibody at 20 µg/ml.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.