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ASB2 Rabbit pAb

Catalog # AP96733

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q96Q27
Other Accession	Q96Q27
Predicted	Rat, Pig, Human, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70212
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ASB2
Epitope Specificity	501-587/587
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 12 ANK repeats Contains 1 SOCS box domain.
SUBUNIT	Component of a probable ECS E3 ubiquitin-protein ligase complex which contains CUL5, either RBX1 or RNF7/RBX2, Elongin BC complex (TCEB1 and TCEB2) and ASB2
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The ankyrin repeat and SOCS box containing (ASB) protein family is comprised of members which each contain "SOCS boxes" but differ from other families of protein in the motifs they contain upstream of the SOCS box. SOCS boxes are carboxy terminal regions of homology found in the suppressor of cytokine signaling family of proteins. The box region is thought to be the point of interaction between SOCS proteins and E3 ubiquitin ligases. The SOCS box serves to couple suppressor of cytokine signalling (SOCS) proteins and their binding partners with the elongin B and C complex, possibly targeting them for degradation. The gene is induced by all trans retinoic acid. In myeloid leukemia cells, the expression of this encoded protein has been shown to induce growth inhibition and chromatin condensation. Multiple alternatively spliced transcript variants have been described for this gene but their full length sequences are not known.

Additional Information

Gene ID	51676
Other Names	ASB-2; 1110008E15Rik; ASB2_HUMAN; ASB2; ASB2_RAT; ankyrin repeat and SOCS box containing 2; ankyrin repeat and SOCS box-containing 2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ASB2
Function	Substrate-recognition component of a SCF-like ECS (Elongin- Cullin-SOCS-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:15590664, PubMed:16325183). Mediates Notch- induced ubiquitination and degradation of substrates including TCF3/E2A and JAK2 (PubMed:21119685). Required during embryonic heart development for complete heart looping (By similarity). Required for cardiomyocyte differentiation (PubMed:32179481). Specifically promotes the ubiquitination of SMAD9 and targets it for proteasomal degradation, leading to avoid excessive accumulation of SMAD9 (PubMed:34845242). Plays a role in the regulation of NK-cell migration by modulating protein levels of filamin A/FLNA via regulation of its ubiquitination and proteasome degradation (By similarity).
Cellular Location	Cytoplasm, cytoskeleton, stress fiber
Tissue Location	[Isoform 1]: Expressed in muscle cells.

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