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ASB2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17253a

Product Information

Application	WB, E
Primary Accession	Q96Q27
Other Accession	NP_057234.2
Reactivity	Human
Predicted	Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37106
Calculated MW	70212
Antigen Region	58-86

Additional Information

Gene ID	51676
Other Names	Ankyrin repeat and SOCS box protein 2, ASB-2, ASB2
Target/Specificity	This ASB2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 58-86 amino acids from the N-terminal region of human ASB2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ASB2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

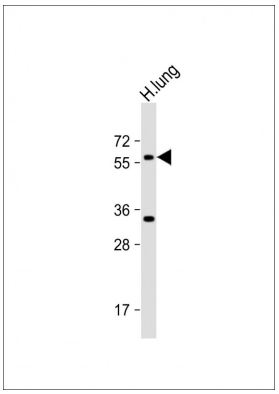
Background

The protein encoded by this gene is a member of the ankyrin repeat and SOCS box-containing (ASB) family of proteins. They contain ankyrin repeat sequence and SOCS box domain. 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. This 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.

References

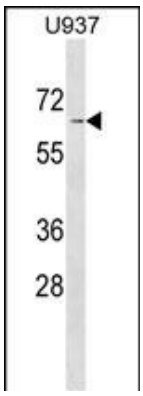
Heuze, M.L., et al. Blood 112(13):5130-5140(2008)
Kohroki, J., et al. FEBS Lett. 579(30):6796-6802(2005)
Heuze, M.L., et al. J. Biol. Chem. 280(7):5468-5474(2005)
Colland, F., et al. Genome Res. 14(7):1324-1332(2004)
Namciu, S.J., et al. Mamm. Genome 15(3):162-178(2004)

Images



Anti-ASB2 Antibody (N-term) at 1:1000 dilution + human lung lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 65 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

ASB2 Antibody (N-term) (Cat. #AP17253a) western blot analysis in U937 cell line lysates (35ug/lane).This demonstrates the ASB2 antibody detected the ASB2 protein (arrow).



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