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IRF2BP2 Antibody

Catalog # ASC11438

Product Information

Application	WB, ICC, E
Primary Accession	Q7Z5L9
Other Accession	NP_892017, 116734704
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	61025
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	IRF2BP2 antibody can be used for detection of IRF2BP2 by Western blot at 1 g/mL. Antibody can also be used for immunocytochemistry starting at 2.5 g/mL.

Additional Information

Gene ID	359948
Other Names	Interferon regulatory factor 2-binding protein 2, IRF-2-binding protein 2, IRF-2BP2, IRF2BP2
Target/Specificity	IRF2BP2; At least two isoforms of IRF2BP2 are known to exist; this antibody will detect both. This antibody is predicted to not cross-react with any FOXD4 protein family members.
Reconstitution & Storage	IRF2BP2 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	IRF2BP2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	IRF2BP2
Function	Acts as a transcriptional corepressor in a IRF2-dependent manner; this repression is not mediated by histone deacetylase activities (PubMed:12799427). Represses the NFAT1-dependent transactivation of NFAT-responsive promoters (PubMed:21576369). Acts as a coactivator of VEGFA expression in cardiac and skeletal muscles (PubMed:20702774). Plays a role in immature B-cell differentiation (PubMed:27016798).

Cellular Location Cytoplasm. Nucleus.

Background

IRF2BP2 Antibody: IRF2BP2, like the related protein IRF2BP1, is a co-repressor that interacts specifically with the C-terminal repression domain of Interferon Regulatory Factor 2 (IRF2). IRF2BP2 is a direct target gene of p53 and is involved in cell survival during the p53 stress response, able to impede the p53-mediated transactivation of p21 and Bax. IRF2BP2 is also a co-factor of VGLL4 and is required to induce the expression of vascular endothelial growth factor A (VEGF-A) in muscle. It is normally found in the nucleus of skeletal muscle and cardiac cells, but can be found in the cytoplasm during skeletal muscle differentiation.

References

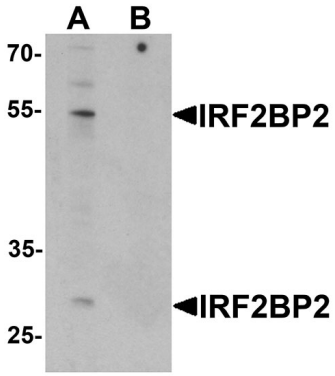
Childs KS and Goodbourn S. Identification of novel co-repressor molecules for interferon regulatory factor-2. Nuc. Acids Res. 2003; 31:3016-26

Koeppel M, van Heeringen SJ, Smeenk L, et al. The novel p53 target gene IRF2BP2 participates in cell survival during the p53 stress response. Nuc. Acids Res. 2009; 37:322-35.

Teng ACT, Kuraitis D, Deeke SA, et al. IRF2BP2 is a skeletal and cardiac muscle-enriched ischemia-inducible activator of VEGFA expression. FASEB J. 2010; 24:4825-34.

Teng ACT, Al-montashiri NAM, Cheng BLM, et al. Identification of a phosphorylation-dependent nuclear localization motif in interferon regulatory factor 2 binding protein 2. PLoS One 2011; 6:e24100.

Images



Western blot analysis of IRF2BP2 in HeLa cell lysate with IRF2BP2 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide

Immunocytochemistry of IRF2BP2 in A20 cells with IRF2BP2 antibody at 2.5 µg/mL.