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IRF2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11225C

Product Information

Application	WB, E
Primary Accession	P14316
Other Accession	NP_002190
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB19228
Calculated MW	39354
Antigen Region	225-255

Additional Information

Gene ID	3660
Other Names	Interferon regulatory factor 2, IRF-2, IRF2
Target/Specificity	This IRF2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 225-255 amino acids from the Central region of human IRF2.
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	IRF2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	IRF2
Function	DNA-binding transcription factor that specifically binds to the upstream regulatory region of type I interferon (IFN) and IFN- inducible genes and regulates their expression (PubMed:39013473, PubMed:7687740). Mainly acts as a transcription repressor, repressing expression (PubMed:39013473). Also

	acts as an activator for several genes including H4 and IL7 (PubMed:15226432, PubMed:9540062). Constitutively binds to the ISRE promoter to activate IL7 (PubMed:15226432). Involved in cell cycle regulation through binding the site II (HiNF-M) promoter region of H4 and activating transcription during cell growth (PubMed:9540062). Antagonizes IRF1 transcriptional activation (By similarity).
Cellular Location	Nucleus {ECO:0000250|UniProtKB:P23906}. Chromosome {ECO:0000250|UniProtKB:P23906}
Tissue Location	Expressed throughout the epithelium of the colon. Also expressed in lamina propria.

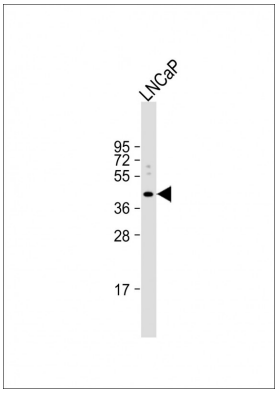
Background

IRF2 encodes interferon regulatory factor 2, a member of the interferon regulatory transcription factor (IRF) family. IRF2 competitively inhibits the IRF1-mediated transcriptional activation of interferons alpha and beta, and presumably other genes that employ IRF1 for transcription activation. However, IRF2 also functions as a transcriptional activator of histone H4. [provided by RefSeq].

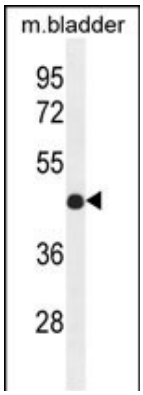
References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Lace, M.J., et al. Virology 399(2):270-279(2010)
Masumi, A., et al. Biochem. Biophys. Res. Commun. 391(4):1623-1628(2010)
Daley, D., et al. Hum. Genet. 125(4):445-459(2009)
Dhar, D., et al. PLoS ONE 4 (9), E7049 (2009) :

Images



Anti-IRF2 Antibody (Center) at 1:1000 dilution + LNCaP whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 39 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



IRF2 Antibody (Center) (Cat. #AP11225c) western blot analysis in mouse bladder tissue lysates (35ug/lane).This demonstrates the IRF2 antibody detected the IRF2 protein (arrow).

Citations

- Embryonic stem cell-specific microRNAs contribute to pluripotency by inhibiting regulators of multiple differentiation pathways.