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IRF2 Rabbit pAb

Catalog # AP99474

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P14316
Other Accession	P14316
Reactivity	Rat, Human, Mouse
Predicted	Pig, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39354
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human IRF2
Epitope Specificity	81-180/349
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the IRF family. Contains 1 IRF tryptophan pentad repeat DNA-binding domain.
Post-translational modifications	Acetylated by CBP/ p300 during cell-growth. Acetylation on Lys-75 is required for stimulation of H4 promoter activity. The major sites of sumoylation are Lys-137 and Lys-293. Sumoylation by SUMO1 increases its transcriptional repressor activity on IRF1 and diminishes its ability to activate ISRE and H4 promoter.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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, Jul 2008]

Additional Information

Gene ID	3660
Other Names	IRF-2; 9830146E22Rik; IRF2_HUMAN; IRF2; IRF2_MOUSE; interferon regulatory factor 2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	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.

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