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IRF5 Antibody

Rabbit mAb
Catalog # AP90807

Product Information

Application	WB, IHC, FC
Primary Accession	Q13568
Reactivity	Human
Clonality	Monoclonal
Other Names	Interferon regulatory factor 5; Interferon regulatory factor 5 bone marrow variant; IRF 5; SLEB10;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	56044

Additional Information

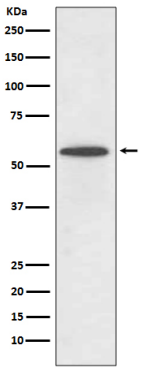
Dilution	WB 1:1000~1:2000 IHC 1:50~1:200 FC 1:100
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human IRF5
Description	Play an important role in pathogen defense, autoimmunity, lymphocyte development, cell growth, and susceptibility to transformation. Studies have shown that genetic variants of IRF-5 have been associated with disorders where the IFN pathway is abnormally activated, such as systemic lupus erythematosus.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	IRF5 {ECO:0000303|PubMed:11303025, ECO:0000312|HGNC:HGNC:6120}
Function	Transcription factor that plays a critical role in innate immunity by activating expression of type I interferon (IFN) IFNA and INFB and inflammatory cytokines downstream of endolysosomal toll-like receptors TLR7, TLR8 and TLR9 (PubMed:11303025, PubMed:15695821, PubMed:22412986, PubMed:25326418, PubMed:32433612). Regulates the transcription of type I IFN genes (IFN-alpha and IFN-beta) and IFN- stimulated genes (ISG) by binding to an interferon-stimulated response element (ISRE) in their promoters (By similarity). Can efficiently activate both the IFN-beta (IFNB) and the IFN-alpha (IFNA) genes and mediate their induction downstream of the TLR-activated, MyD88- dependent pathway (By similarity). Key transcription factor regulating the IFN response during SARS-CoV-2 infection (PubMed:33440148).

Cellular Location	Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the cytoplasm: upon activation by the TLR adapter MYD88 and subsequent phosphorylation, translocates to the nucleus

Images



Western blot analysis of IRF5 expression in Ramos cell lysate.