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IRF5 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP2828a

Specification

IRF5 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q13568

IRF5 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 3663

Other Names
Interferon regulatory factor 5, IRF-5, IRF5

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2828a was selected from the N-term region of human IRF5. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

IRF5 Antibody (N-term) Blocking Peptide - 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

IRF5 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

IRF5 Antibody (N-term) Blocking Peptide - Images

IRF5 Antibody (N-term) Blocking Peptide - Background

IRF5 is a member of the interferon regulatory factor (IRF) family, a group of transcription factors with diverse roles, including virus-mediated activation of interferon, and modulation of cell growth, differentiation, apoptosis, and immune system activity. Members of the IRF family are characterized by a conserved N-terminal DNA-binding domain containing tryptophan (W) repeats.

IRF5 Antibody (N-term) Blocking Peptide - References

Nordmark,G., Genes Immun. 10 (1), 68-76 (2009)Kim,Y.J., J. Rheumatol. 35 (11), 2106-2118 (2008)