10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

IFI6 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12965a

Product Information

Application	WB, E
Primary Accession	P09912
Other Accession	NP_002029.3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32404
Calculated MW	12927
Antigen Region	5-34

Additional Information

Gene ID	2537
Other Names	Interferon alpha-inducible protein 6, Interferon-induced protein 6-16, Ifi-6-16, IFI6, G1P3
Target/Specificity	This IFI6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 5-34 amino acids of human IFI6(P09912-3).
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	IFI6 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	IFI6 (HGNC:4054)
Function	Interferon-stimulated protein that plays an important role in innate immune response against a wide variety of viruses (PubMed:31142663). Inhibits flavivirus replication by preventing the formation of virus-induced

endoplasmic reticulum membrane invaginations, which are double-membrane vesicles that flaviviruses use for their replication (PubMed:30224801). Has an antiviral activity towards hepatitis C virus/HCV by inhibiting the EGFR signaling pathway, whose activation is required for entry of the virus into cells (PubMed:25757571). Within the nucleus, restricts hepatitis B virus/HBV promoter activity leading to substantial reduction of viral replication and gene expression (PubMed:33868257). Plays a role in apoptosis, negatively regulating the intrinsinc apoptotic signaling pathway and TNFSF10-induced apoptosis (PubMed:15685448, PubMed:17823654, PubMed:26244642). However, it has also been shown to have a pro- apoptotic activity (PubMed:27673746). Modulates innate immune response mediated by RIGI by preventing its activation (PubMed:36793726).

Cellular Location Endoplasmic reticulum membrane; Multi-pass membrane protein. Mitochondrion inner membrane; Multi-pass membrane protein

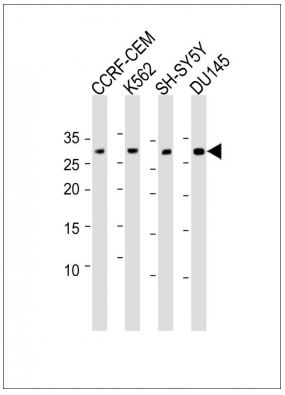
Background

This gene was first identified as one of the many genes induced by interferon. The encoded protein may play a critical role in the regulation of apoptosis. A minisatellite that consists of 26 repeats of a 12 nucleotide repeating element resembling the mammalian splice donor consensus sequence begins near the end of the second exon. Alternatively spliced transcript variants that encode different isoforms by using the two downstream repeat units as splice donor sites have been described.

References

Davila, S., et al. Genes Immun. 11(3):232-238(2010)
Szegedi, K., et al. Exp. Dermatol. 19(3):269-278(2010)
Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010) :
Zhao, D., et al. Virol. J. 5, 114 (2008) :
Cheriyath, V., et al. J. Clin. Invest. 117(10):3107-3117(2007)

Images



All lanes: Anti-IFI6 Antibody (N-term) at 1:1000 dilution Lane 1: CCRF-CEM whole cell lysate Lane 2: K562 whole cell lysate Lane 3: SH-SY5Y whole cell lysate Lane 4: DU145 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 30 KDa Blocking/Dilution buffer: 5% NFDM/TBST.