

Product datasheet for TP511363

Ifih1 (NM_001164477) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse interferon induced with helicase C domain 1 (Ifih1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211363 representing NM_001164477 Red =Cloning site Green =Tags(s)

MSIVCSAEDSFRNLILFFRPRLKMYIQVEPVL D H L F L S A E T K E Q I L K K I N T C G N T S A A E L L L S T L E Q Q Q
W P L G W T Q M F V E A L E H S G N P L A A R Y V K P T L T D L P S P S E T A H D E C L H L L T L L Q P T L V D K L L I N D V L D T C F E
K G L L T V E D R N R I S A A G N S G N E S G V R E L L R R I V Q K E N W F S T F L D V L R Q T G N D A L F Q E L T G G G C P E D N T E S D
T S L A E G S V S C F D E S L G H N S N M G R D S G T M G S D S D E S V I Q T K R V S P E P E L Q L R P Y Q M E V A Q P A L D G K N I I C
L P T G S G K T R V A V Y I T K D H L D K K K Q A S E S G K V I V L V N K V M L A E Q L F R K E F N P Y L K K W Y R I I G L S G D T Q L K I
S F P E V V K S Y D V I I S T A Q I L E N S L L N L E S G D D D G V Q L S D F S L I I D E C H H T N K E A V Y N N I M R R Y L K Q K L R N
N D L K K Q N K P A I P L P Q I L G L T A S P G V G A A K K Q S E A E K H I L N I C A N L D A F T I K T V K E N L G Q L K H Q I K E P C K K
F V I A D D T R E N P F K E K L L E I M A S I Q T Y C Q K S P M S D F G T Q H Y E Q W A I Q M E K K A A K D G N R K D R V C A E H L R K Y N
E A L Q I N D T I R M I D A Y S H L E T F Y T D E K E K F A V L N D S D K S D D E A S S C N D Q L K G D V K K S L K L D E T D E F L M N L
F F D N K K M L K K L A E N P K Y E N E K L I K L R N T I L E Q F T R S E E S S R G I I F T K R Q S T Y A L S Q W I M E N A K F A E V G V
K A H H L I G A G H S S E V K P M T Q T E Q K E V I S K F R T G E I N L L I A T T V A E E G L D I K E C N I V I R Y G L V T N E I A M V Q A
R G R A R A D E S T Y V L V T S S G S G V T E R E I V N D F R E K M M Y K A I N R V Q N M K P E E Y A H K I L E L Q V S I L E K K M K V K
R S I A K Q Y N D N P S L I T L L C K N C S M L V C S G E N I H V I E K M H H V N M T P E F K G L Y I V R E N K A L Q K K F A D Y Q T N G E
I I C K C G Q A W G T M M V H K G L D L P C L K I R N F V N F K N N S P K K Q Y K K W V E L P I R F P D L D Y S E Y C L Y S D E D

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	111.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001157949
Locus ID:	71586
UniProt ID:	Q8R5F7
RefSeq Size:	5372
Cytogenetics:	2 C1.3
RefSeq ORF:	2928
Synonyms:	9130009C22Rik; Helicard; Hlcd; MDA5; RLR-2
Summary:	Innate immune receptor which acts as a cytoplasmic sensor of viral nucleic acids and plays a major role in sensing viral infection and in the activation of a cascade of antiviral responses including the induction of type I interferons and proinflammatory cytokines. Its ligands include mRNA lacking 2'-O-methylation at their 5' cap and long-dsRNA (>1 kb in length). Upon ligand binding it associates with mitochondria antiviral signaling protein (MAVS/IPS1) which activates the IKK-related kinases: TBK1 and IKBKE which phosphorylate interferon regulatory factors: IRF3 and IRF7 which in turn activate transcription of antiviral immunological genes, including interferons (IFNs); IFN-alpha and IFN-beta. Responsible for detecting the Picornaviridae family members such as encephalomyocarditis virus (EMCV), mengo encephalomyocarditis virus (ENMG), and theiler's murine encephalomyelitis virus (TMEV). Can also detect other viruses such as dengue virus (DENV), west Nile virus (WNV), and reovirus. Also involved in antiviral signaling in response to viruses containing a dsDNA genome, such as vaccinia virus. Plays an important role in amplifying innate immune signaling through recognition of RNA metabolites that are produced during virus infection by ribonuclease L (RNase L). May play an important role in enhancing natural killer cell function and may be involved in growth inhibition and apoptosis in several tumor cell lines.[UniProtKB/Swiss-Prot Function]

Product images:

Coomassie blue staining of purified Ifih1 protein (Cat# TP511363). The protein was produced from HEK293T cells transfected with Ifih1 cDNA clone (Cat# [MR211363]) using MegaTran 2.0 (Cat# [TT210002]).