Datasheet for ABIN7563528

IRF7 Protein (AA 1-457) (His tag)

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Overview

Quantity:	1 mg
Target:	IRF7
Protein Characteristics:	AA 1-457
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IRF7 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Irf7 Protein expressed in mammalien cells.
Sequence:	MAEVRGVQRV LFGDWLLGEV SSGQYEGLQW LNEARTVFRV PWKHFGRRDL DEEDAQIFKA WAVARGRWPP SGVNLPPPEA EAAERRERRG WKTNFRCALH STGRFILRQD NSGDPVDPHK VYELSRELGS TVGPATENRE EVSLSNALPT QGVSPGSFLA RENAGLQTPS PLLSSDAGDL LLQVLQYSHI LESESGADPV PPQAPGQEQD RVYEEPYAAW QVEAVPSPRP QQPALTERSL GFLDVTIMYK GRTVLQAVVG HPRCVFLYSP MAPAVRTSEP QPVIFPSPAE LPDQKQLHYT ETLLQHVSPG LQLELRGPSL WALRMGKCKV YWEVGSPMGT TGPSTPPQLL ERNRHTPIFD FSTFFRELEE FRARRRQGSP HYTIYLGFGQ DLSAGRPKEK TLILVKLEPW VCKAYLEGVQ REGVSSLDSS SLGLCLSSTN SLYEDIEHFL MDLGQWP **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Product Details

Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	IRF7
Alternative Name:	Irf7 (IRF7 Products)
Background:	Interferon regulatory factor 7 (IRF-7),FUNCTION: Key transcriptional regulator of type I interferon (IFN)-dependent immune responses and plays a critical role in the innate immune response against DNA and RNA viruses (PubMed:27129230, PubMed:22095711). 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. Can efficiently activate both the IFN-beta (IFNB) and the IFN-alpha (IFNA) genes and mediate their induction via both the virus-activated, MyD88-independent pathway and the TLR-activated, MyD88-dependent pathway. Induces transcription of ubiquitin hydrolase USP25 mRNA in response to lipopolysaccharide (LPS) or viral infection in a type I IFN-dependent manner (PubMed:27129230). Required during both the early and late phases of the IFN gene induction but is more critical for the late than for the early phase. Exists in an inactive form in the cytoplasm of uninfected cells and following viral infection, double-stranded RNA (dsRNA), or toll-like receptor (TLR) signaling, becomes phosphorylated by IKBKE and TBK1 kinases. This

Target Details

	induces a conformational change, leading to its dimerization and nuclear localization where along with other coactivators it can activate transcription of the type I IFN and ISG genes. Can also play a role in regulating adaptive immune responses by inducing PSMB9/LMP2 expression, either directly or through induction of IRF1. Binds to the Q promoter (Qp) of EBV nuclear antigen 1 a (EBNA1) and may play a role in the regulation of EBV latency. Can activate distinct gene expression programs in macrophages and regulate the anti-tumor properties of primary macrophages. {ECO:0000269|PubMed:15361868, ECO:0000269|PubMed:15743772, ECO:0000269|PubMed:15800576, ECO:0000269|PubMed:18562536, ECO:0000269|PubMed:22095711, ECO:0000269|PubMed:27129230}.
Molecular Weight:	51.2 kDa
UniProt:	P70434
Pathways:	TLR Signaling, Activation of Innate immune Response, Hepatitis C, Toll-Like Receptors Cascades, Autophagy

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months