Recombinant Human RSAD2 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. RSAD2-122H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RSAD2 MS Standard C13 and N15-labeled recombinant protein (NP_542388) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Interferon-inducible iron-sulfur (4FE-4S) cluster-binding antiviral protein which plays a major role in the cell antiviral state induced by type I and type II interferon. Can inhibit a wide range of DNA and RNA viruses, including human cytomegalovirus (HCMV), hepatitis C virus (HCV), west Nile virus (WNV), dengue virus, sindbis virus, influenza A virus, sendai virus, vesicular stomatitis virus (VSV), and human immunodeficiency virus (HIV-1). Displays antiviral activity against influenza A virus by inhibiting the budding of the virus from the plasma membrane by disturbing the lipid rafts. This is accomplished, at least in part, through binding and inhibition of the enzyme farnesyl diphosphate synthase (FPPS), which is essential for the biosynthesis of isoprenoid-derived lipids. Promotes TLR7 and TLR9-dependent production of IFN-beta production in plasmacytoid dendritic cells (pDCs) by facilitating Lys-63'-linked ubiquitination of IRAK1. Plays a role in CD4+ T-cells activation and differentiation. Facilitates T-cell receptor (TCR)-mediated GATA3 activation and optimal T-helper 2 (Th2) cytokine production by modulating NFKB1 and JUNB activities. Can inhibit secretion of soluble proteins.

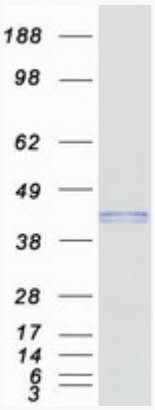
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Molecular Mass	42.2 kDa
AA Sequence	MWVLTPAAFAGKLLSVFRQPLSSLWRSLVPLFCWLRATFWLRATKRRKQQLVLRGP DETKEEEEDPPLPTTPTSVNYHFTRQCNYKCGFCFHTAKTSFVLPLEEAKRGLLLLK EAGMEKINFSGGEPFLQDRGEYLGKLVRFCKVELRLPSVSIVSNGSLIRERWFQNYG EYLDILAISCDSFDEEVNVLIGRGQGKKNHVENLQKLRRWCRDYRVAFKINSVINRFN VEEDMTEQIKALNPVRWKVFQCLLIEGENCGEDALREAERFVIGDEEFERFLERHKE VSCLVPESNQKMKDSYLILDEYMRFLNCRKGRKDPSKSILDVGVEEAIKFSGFDEKM FLKRGGKYIWSKADLKLDWTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	RSAD2 radical S-adenosyl methionine domain containing 2 [Homo sapiens (human)]
Official Symbol	RSAD2
Synonyms	RSAD2; radical S-adenosyl methionine domain containing 2; 2510004L01Rik; cig5; cig33; vig1; radical S-adenosyl methionine domain-containing protein 2; cytomegalovirus-induced gene 5 protein; viperin; virus inhibitory protein, endoplasmic

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	reticulum-associated, interferon-inducible
Gene ID	91543
mRNA Refseq	NM_080657
Protein Refseq	NP_542388
MIM	607810
UniProt ID	Q8WXG1
SDS-PAGE	

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