IFNAR1 Antibody

Product Code	CSB-RA011046A0HU
Abbreviation	Interferon alpha/beta receptor 1
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P17181
Immunogen	A synthesized peptide derived from human IFNAR1
Species Reactivity	Human
Tested Applications	ELISA
Relevance	Component of the receptor for type I interferons, including interferons alpha, IFNB1 and IFNW1 (PubMed:2153461, PubMed:7665574, PubMed:10049744, PubMed:14532120, PubMed:15337770, PubMed:21854986). Functions in general as heterodimer with IFNAR2 (PubMed:7665574, PubMed:10049744, PubMed:21854986). Type I interferon binding activates the JAK-STAT signaling cascade, and triggers tyrosine phosphorylation of a number of proteins including JAKs, TYK2, STAT proteins and the IFNR alpha- and beta-subunits themselves (PubMed:7665574, PubMed:21854986). Can form an active IFNB1 receptor by itself and activate a signaling cascade that does not involve activation of the JAK-STAT pathway (By similarity).
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Interferon alpha/beta receptor 1, IFN-R-1, IFN-alpha/beta receptor 1, Cytokine receptor class-II member 1, Cytokine receptor family 2 member 1, CRF2-1, Type I interferon receptor 1, IFNAR1, IFNAR
Immunogen Species	Homo sapiens (Human)
Research Area	Immunology
Gene Names	IFNAR1
Accession NO.	1B12
Description	Recombinant IFNAR1 antibody production begins with the obtaining of the antibody genes. This process includes animal immunization, spleen isolation, RNA extraction, DNA synthesis via reverse transcription, and DNA sequencing and screening. Next, the antibody genes were cloned into a plasma vector and then transfected into an appropriate mammalian cell line for expression. The

recombinant IFNAR1 antibody was obtained and characterized following transient expression. It was purified using affinity-chromatography. And it can be used to detect the IFNAR1 antibody from Human in the ELISA.

IFNAR1, together with IFNAR2, constitutes the interferon-alpha receptor. It binds to the ligand and JAK1, which plays an important role in signal transduction. IFNAR1 deficiency rescues recognition and spatial memory of HIVgp120tg females. Hina Singh et al. has discovered that IFNAR1 plays a prominent role in distinct sex-dependent and independent processes of HIV-1-induced neuronal injury and behavioral impairment.