ARG82459
Mouse IFNAR1 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82459-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82459-002	Standard	2 X 10 ng/vial	4°C
ARG82459-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82459-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82459-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82459-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82459-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82459-008	25X Wash buffer	20 ml	4°C
ARG82459-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82459-010	STOP solution	10 ml (Ready to use)	4°C
ARG82459-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82459 Mouse IFNAR1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse IFNAR1 in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Target Name	IFNAR1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31.25 pg/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4.3% Inter-Assay CV: 5.8%

Alternate Names	Cytokine receptor class-II member 1; Cytokine receptor family 2 member 1; IFRC; IFNAR; AVP; IFN-alpha/beta receptor 1; CRF2-1; IFN-R-1; Type I interferon receptor 1; IFNBR; Interferon alpha/beta receptor 1; IFN-alpha-REC

Application Instructions

Assay Time	~ 5 hours

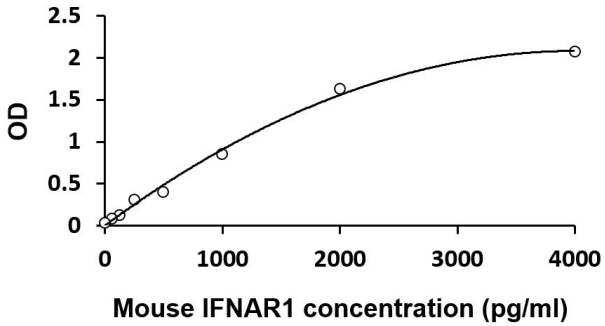
Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	IFNAR1
Gene Full Name	interferon (alpha, beta and omega) receptor 1
Background	The protein encoded by this gene is a type I membrane protein that forms one of the two chains of a receptor for interferons alpha and beta. Binding and activation of the receptor stimulates Janus protein kinases, which in turn phosphorylate several proteins, including STAT1 and STAT2. The encoded protein also functions as an antiviral factor. [provided by RefSeq, Jul 2008]
Function	Associates with IFNAR2 to form the type I interferon receptor. Receptor for interferons alpha and beta. Binding to type I IFNs triggers tyrosine phosphorylation of a number of proteins including JAKs, TYK2, STAT proteins and IFNR alpha- and beta-subunits themselves. Can also transduce IFNB signals without the help of IFNAR2, and not activating the Jak-STAT pathway. [UniProt]
Highlight	Related products: IFNAR1 antibodies; IFNAR1 ELISA Kits; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Ubiquitinated, leading to its internalization and degradation (PubMed:14532120, PubMed:15337770). Polyubiquitinated via 'Lys-48'-linked and 'Lys-63'-linked ubiquitin chains, leading to receptor internalization and lysosomal degradation (PubMed:18056411). The 'Lys-63'-linked ubiquitin chains are cleaved off by the BRISC complex (PubMed:24075985). Phosphorylated on serine residues in response to interferon binding; this promotes interaction with FBXW11 and ubiquitination (PubMed:14532120, PubMed:15337770, PubMed:24075985). Phosphorylated on tyrosine residues by TYK2 tyrosine kinase (PubMed:7526154). Phosphorylated on tyrosine residues in response to interferon (PubMed:10049744). Palmitoylation at Cys-463 is required for the activation of STAT1 and STAT2. [UniProt]
Cellular Localization	Isoform 1: Cell membrane; Single-pass type I membrane protein. Late endosome. Lysosome. Note=Interferon binding triggers internalization of the receptor from the cell membrane into endosomes and then into lysosomes. [UniProt]

Images



ARG82459 Mouse IFNAR1 ELISA Kit standard curve image

ARG82459 Mouse IFNAR1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.