

## ARG83341 Human PILRA ELISA Kit

Package: 96 wells  
Store at: 4°C

### Summary

Product Description	ARG83341 Human PILRA ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human PILRA in serum, plasma and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	PILRA
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	75 pg/ml
Detection Range	156 pg/ml - 10000 pg/ml
Sample Type	Serum, Plasma and Cell culture supernatants.
Alternate Names	PILRA; Paired Immunoglobulin Like Type 2 Receptor Alpha; FDF03; Paired Immunoglobulin-Like Type 2 Receptor Alpha; Inhibitory Receptor PILR-Alpha; Cell Surface Receptor FDF03; Paired Immunoglobulin-Like Type 2 Receptor Alpha

### Application Instructions

Assay Time	~ 5 hours
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### 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

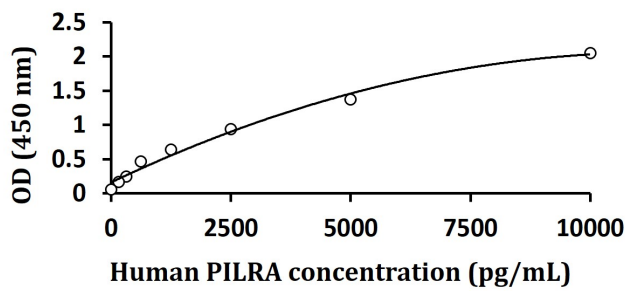
Gene Symbol	PILRA
Gene Full Name	Paired Immunoglobulin Like Type 2 Receptor Alpha
Background	Cell signaling pathways rely on a dynamic interaction between activating and inhibiting processes. SHP-1-mediated dephosphorylation of protein tyrosine residues is central to the regulation of several cell signaling pathways. Two types of inhibitory receptor superfamily members are immunoreceptor tyrosine-based inhibitory motif (ITIM)-bearing receptors and their non-ITIM-bearing, activating counterparts. Control of cell signaling via SHP-1 is thought to occur through a balance between PILRalpha-mediated inhibition and PILRbeta-mediated activation. These paired immunoglobulin-like receptor genes are located in a tandem head-to-tail orientation on chromosome 7. This particular gene

encodes the ITIM-bearing member of the receptor pair, which functions in the inhibitory role. Alternative splicing has been observed at this locus and three variants, each encoding a distinct isoform, are described.

Function	Paired receptors consist of highly related activating and inhibitory receptors and are widely involved in the regulation of the immune system. PILRA is thought to act as a cellular signaling inhibitory receptor by recruiting cytoplasmic phosphatases like PTPN6/SHP-1 and PTPN11/SHP-2 via their SH2 domains that block signal transduction through dephosphorylation of signaling molecules. Receptor for PIANP.
PTM	Glycoprotein, Phosphoprotein
Cellular Localization	Cell membrane, Membrane, Secreted

## Images

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ARG83341 Human PILRA ELISA Kit standard curve image

ARG83341 Human PILRA ELISA Kit results of a typical standard run with optical density reading at 450 nm.