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# Product Information

## MemDX™ Membrane Protein Human PILRA (Paired immunoglobin like type 2 receptor alpha) Full Length

Cat. No.: **MPC4235K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human PILRA membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

## Product Specifications

**Host Species**
Human

**Target Protein**
PILRA

**Protein Length**
Full length

**Protein Class**
Receptor

**TMD**
1

**Sequence**
MGRPLLLPLLPLLLPPAFLQPSGSTGSGPSYLYGVTQPKHLSASMGGSVE
IPFSFYYPWELATAPDVRISWRRGHFHRQSFYSTRPPSIHKDYVNRLFLN
WTEGQKSGFLRISNLQKQDQSVYFCRVELDTRSSGRQQWQSIEGTKLSIT
QAVTTTTQRPSSMTTTWRLSSTTTTTGLRVTQGKRRSDSWHISLETAVGV
AVAVTVLGIMILGLICLLRWRRRKGQQRTKATTPAREPFQNTEEPYENIR
NEGQNTDPKLNPKDDGIVYASLALSSSTSPRAPPSHRPLKSPQNETLYSV
LKA

## Product Description

**Expression Systems**
HEK293

**Tag**
Based on specific requirements

**Protein Format**
Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

### Form

Liquid

### Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

## Target

### Target Protein

PILRA

### Full Name

Paired immunoglobin like type 2 receptor alpha

### Introduction

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.

### Alternative Names

PILRA; FDF03; cell surface receptor FDF03; inhibitory receptor PILR-alpha; Paired immunoglobin like type 2 receptor alpha

### Gene ID

29992

### UniProt ID

Q9UKJ1