

PILRA Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant PILRA.

Catalog # AT3311a

Product Information

Application	WB, E
Primary Accession	Q9UKJ1
Other Accession	BC017812
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	3C2
Calculated MW	34005

Additional Information

Gene ID	29992
Other Names	Paired immunoglobulin-like type 2 receptor alpha, Cell surface receptor FDF03, Inhibitory receptor PILR-alpha, PILRA
Target/Specificity	PILRA (AAH17812, 1 a.a. ~ 226 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	PILRA Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

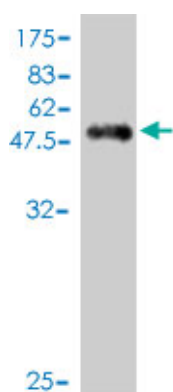
Background

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.

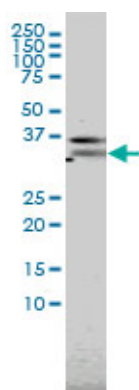
References

Differential effects on cell fusion activity of mutations in herpes simplex virus 1 glycoprotein B (gB) dependent on whether a gD receptor or a gB receptor is overexpressed. Fan Q, et al. J Virol, 2009 Aug. PMID 19457990. Entry of herpes simplex virus 1 and other alphaherpesviruses via the paired immunoglobulin-like type 2 receptor alpha. Arai J, et al. J Virol, 2009 May. PMID 19244335. PILRA is a herpes simplex virus-1 entry coreceptor that associates with glycoprotein B. Satoh T, et al. Cell, 2008 Mar 21. PMID 18358807. Expression, crystallization and preliminary X-ray diffraction analysis of human paired Ig-like type 2 receptor alpha (PILRA). Tabata S, et al. Acta Crystallogr Sect F Struct Biol Cryst Commun, 2008 Jan 1. PMID 18097101. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.

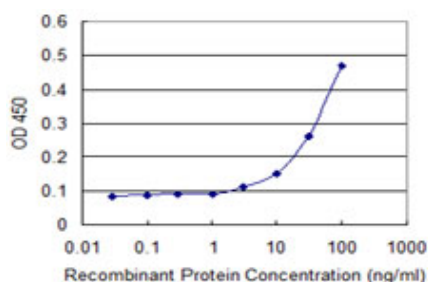
Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (50.6 KDa) .



PILRA monoclonal antibody (M01), clone 3C2 Western Blot analysis of PILRA expression in HeLa S3 NE (Cat # AT3311a)



Detection limit for recombinant GST tagged PILRA is approximately 3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.