ARG22257
anti-CD74 antibody [PIN.1]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [PIN.1] recognizes CD74
Tested Reactivity	Hu, Ms
Tested Application	FACS, ICC/IF, IHC-P, IP, WB
Specificity	Detects ~33-35kDa protein doublet corresponding to the molecular mass of the p33 and p35 forms of human CD74.
Host	Mouse
Clonality	Monoclonal
Clone	PIN.1
Isotype	IgG
Target Name	CD74
Species	Human
Immunogen	Human CD74 invariant chain synthetic peptide
Conjugation	Un-conjugated
Alternate Names	DHLAG; Ii; CD antigen CD74; II; HLA-DR antigens-associated invariant chain; Ia-GAMMA; Ia antigen-associated invariant chain; HLA class II histocompatibility antigen gamma chain; p33; HLADG

Application Instructions

Application table

Application	Dilution
FACS	Assay-dependent
ICC/IF	1:50
IHC-P	Assay-dependent
IP	Assay-dependent
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

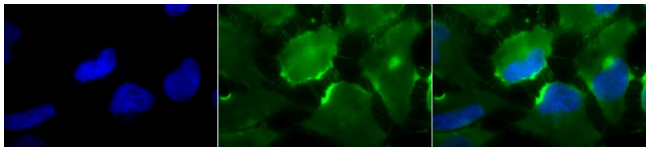
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.2), 0.09% Sodium azide and 50% Glycerol
Preservative	0.09% Sodium azide

Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 16149 Mouse GeneID: 972 Human Swiss-port # P04233 Human Swiss-port # P04441 Mouse
Gene Symbol	CD74
Gene Full Name	CD74 molecule, major histocompatibility complex, class II invariant chain
Background	The protein encoded by this gene associates with class II major histocompatibility complex (MHC) and is an important chaperone that regulates antigen presentation for immune response. It also serves as cell surface receptor for the cytokine macrophage migration inhibitory factor (MIF) which, when bound to the encoded protein, initiates survival pathways and cell proliferation. This protein also interacts with amyloid precursor protein (APP) and suppresses the production of amyloid beta (Abeta). Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]
Function	Plays a critical role in MHC class II antigen processing by stabilizing peptide-free class II alpha/beta heterodimers in a complex soon after their synthesis and directing transport of the complex from the endoplasmic reticulum to the endosomal/lysosomal system where the antigen processing and binding of antigenic peptides to MHC class II takes place. Serves as cell surface receptor for the cytokine MIF. [UniProt]
Calculated Mw	34 kDa
PTM	N- and O-glycosylated. O-glycosylated with core 1 or possibly core 8 glycans.
Cellular Localization	Cell membrane, Endoplasmic Reticulum, Endoplasmic reticulum membrane, Endosome, Golgi apparatus, Lysosome

Images



ARG22257 anti-CD74 antibody [PIN.1] ICC/IF image

Immunocytochemistry: 2% Formaldehyde (20 min at RT) fixed HeLa cells stained with ARG22257 anti-CD74 antibody [PIN.1] (green) at 1:100 dilution (12 hours at 4°C). Counterstain: DAPI (blue) nuclear stain at 1:40000 for 120 min at RT. Magnification: 100x. Left: DAPI (blue) nuclear stain, Middle: Primary antibody, Right: Composite.