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Datasheet for ABIN2481713 anti-CD74 antibody (PE)

4 Images



Overview

Quantity:	100 µg
Target:	CD74
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD74 antibody is conjugated to PE
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Immunogen:	Human CD74 invariant chain synthetic peptide
Clone:	PIN-1
Isotype:	lgG1
Specificity:	Detects \sim 33-35 kDa protein doublet corresponding to the molecular mass of the p33 and p35 forms of human CD74.
Cross-Reactivity:	Human, Mouse
Purification:	Protein G Purified
Target Details	
Target:	CD74

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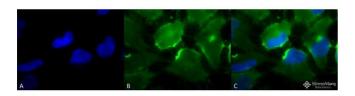
Target Details	
Alternative Name:	CD74 (CD74 Products)
Background:	CD74 is a non-polymorphic type II integral membrane protein. It has a short N-terminal
	cytoplasmic tail of 28 amino acids, followed by a single 24-aa transmembrane region and an
	approximately 150-aa lumenal domain (1). The CD74 chain is thought to function mainly as an
	MHC class II chaperone, which promotes ER exit of MHC class II molecules, directs them to
	endocytic compartments, prevents peptide binding in the ER, and contributes to peptide editing
	in the MHC class II compartment. Class II MHC and li expression was believed to be restricted
	to classical antigen-presenting cells (APC), however, during inflammation, other cell types,
	including mucosal epithelial cells, have also been reported to express class II MHC molecules
	(2). Experiments that investigate cell-surface CD74 are complicated by the fact that CD74
	remains on the cell surface for a very short time. The surface half-life of CD74 was calculated to
	be fewer than 10 minutes (3). CD74 however has also recently been shown to have a role as an
	accessory-signaling molecule because of its high-affinity binding to the pro-inflammatory
	cytokine, macrophage migration-inhibitory factor (MIF) (3). The restricted expression of CD74
	by normal tissues and its very rapid internalization make CD74 an attractive therapeutic target
	for both cancer and immunologic diseases (4).
Gene ID:	972
NCBI Accession:	NP_001020329
UniProt:	P04233
Pathways:	Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune
	Response, Negative Regulation of intrinsic apoptotic Signaling, Cancer Immune Checkpoints
Application Details	
Application Notes:	• WB (1:1000)
	• IHC (1:100)
	• ICC/IF (1:50)
	 optimal dilutions for assays should be determined by the user.
Comment:	1 μ g/ml of ABIN2481713 was sufficient for detection of CD74 in 20 μ g of PALA cell lysates by
	colorimetric immunolot analysis using goat anti-mouse IgG: AP as the secondary antibody.
Restrictions:	For Research Use only
Handling	
Format:	Liquid

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Handling

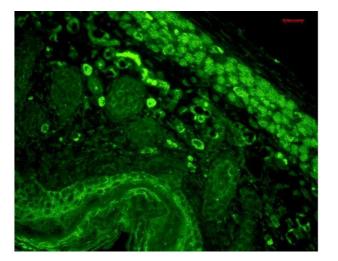
Concentration:	1 mg/mL
Buffer:	PBS pH 7.2, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C

Images



Immunofluorescence (fixed cells)

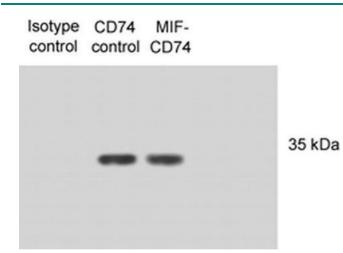
Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-CD74 Monoclonal Antibody, Clone PIN 1.1 . Tissue: HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Mouse Anti-CD74 Monoclonal Antibody at 1:100 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Cell membrane. Endoplasmic reticulum membrane. Golgi apparatus. Endosome. Lysosome. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-CD74 Antibody. (C) Composite.



Immunohistochemistry

Image 2. Immunohistochemistry analysis using Mouse Anti-CD74 Monoclonal Antibody, Clone PIN 1.1 . Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-CD74 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Beautiful basal to suprabasal staining in epidermis, dermis, hair follicles and muscle.

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Western Blotting

Image 3. Western Blot analysis of Human N87 cell lysates showing detection of CD74 protein using Mouse Anti-CD74 Monoclonal Antibody, Clone PIN 1.1 . Primary Antibody: Mouse Anti-CD74 Monoclonal Antibody at 1:1000. Lysates treated with macrophage inhibitory factor (MIF). Courtesy of: Victor E. Reyes, University of Texas Medical Branch, USA.

Please check the product details page for more images. Overall 4 images are available for ABIN2481713.