

CD74 Rabbit mAb

Catalog No.: A24027 **Recombinant**

Basic Information

Observed MW

35kDa

Calculated MW

34kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IF/ICC, FC

Cross-Reactivity

Human

CloneNo number

ARC56788

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.

Recommended Dilutions

WB	1:1000 - 1:5000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200
FC	1:500 - 1:1000

Immunogen Information

Gene ID

972

Swiss Prot

P04233-2

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 73-232 of human(NP_004346.1)

Synonyms

II; p33; CLIP; DHLAG; HLADG; Ia-GAMMA

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

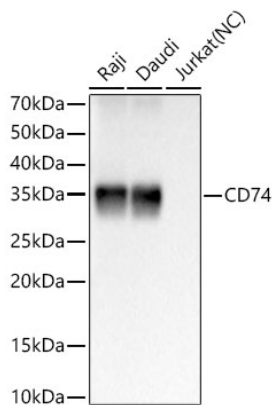
Affinity purification

Storage

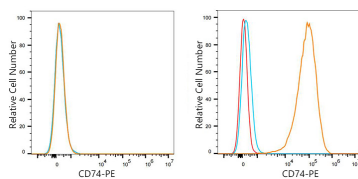
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

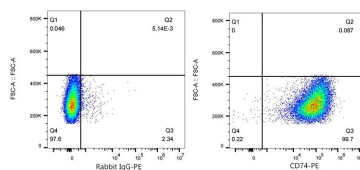
Validation Data



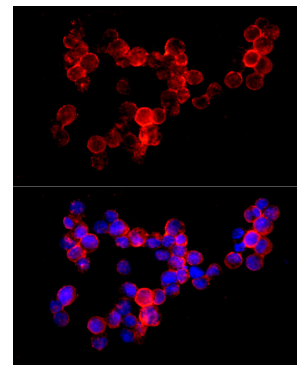
Western blot analysis of various lysates using CD74 Rabbit mAb (A24027) at 1:3000 dilution.
 Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25ug per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Negative control (NC): Jurkat
 Exposure time: 10s.



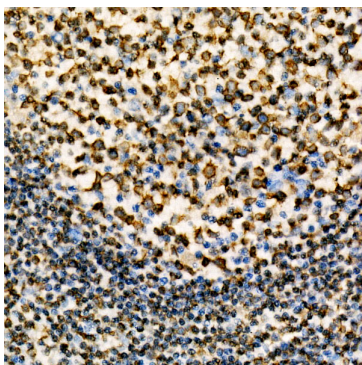
Flow cytometry: 1×10^6 Jurkat cells (negative control, left) and Raji cells (right) were surface-stained with CD74 Rabbit mAb (A24027, 2 $\mu\text{g/mL}$, orange line) or PE Rabbit IgG isotype control (5 $\mu\text{L}/\text{Test}$, blue line), followed by PE Donkey anti-rabbit Antibody staining. Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1×10^6 Raji cells were surface-stained with PE Rabbit IgG isotype control (5 $\mu\text{L}/\text{Test}$, left) or CD74 Rabbit mAb (A24027, 2 $\mu\text{g/mL}$, right).



Immunofluorescence analysis of Raji cells using CD74 Rabbit mAb (A24027) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of CD74 in paraffin-embedded Human tonsil tissue using CD74 Rabbit mAb (A24027) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M Tris/EDTA buffer (pH 9.0) prior to IHC staining.