bs-2518R **[Primary Antibody]**

CD74 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 972 **SWISS:** P04233

Target: CD74

Immunogen: KLH conjugated synthetic peptide derived from human CD74: 151-250/296.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: CD74, also known as the MHC class II associated invariant chain (Ii), is a type II transmembrane protein which binds to the peptide binding groove of newly synthesized MHC class II alpha/beta heterodimers and prevents their premature association with endogenous polypeptides. CD74 is produced in molar excess over MHC class II and some of this is expressed by an unknown pathway on the cell surface independent of, or in association with, MHC class II molecules. The half life of CD74 on the cell surface is only 3 to 4 min after which it is internalized. It has been proposed that cell surface CD74 binds 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]

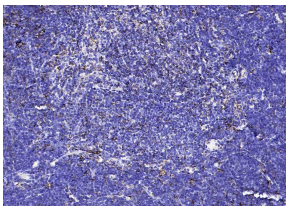
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ELISA (1:5000-10000)

Reactivity: Mouse

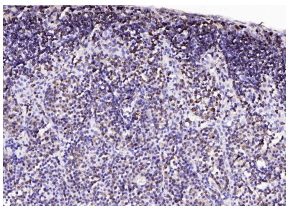
Predicted MW.: 34 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded Mouse Thymus; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CD74 Polyclonal Antibody, Unconjugated (bs-2518R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Mouse Lymph; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CD74 Polyclonal Antibody, Unconjugated (bs-2518R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

SELECTED CITATIONS

- **[IF=12.2]** Jing Chen. et al. Cooperative application of transcriptomics and ceRNA hypothesis: lncRNA-00742/miR-116 targets CD74 to mediate vanadium-induced mitochondrial apoptosis in duck liver. J HAZARD MATER. 2024 Dec;480:135904

WB ;Duck. 39303616

- **[IF=9.225]** Aaron K. Chow. et al. Enteric Glia Regulate Lymphocyte Activation via Autophagy-Mediated MHC-II Expression. Cell Mol Gastroenter. 2021 Jun;: IF ;Mouse. 34166814
- **[IF=7.097]** Chuping Zheng. et al. The cellular immunotherapy of integrated photothermal anti-oxidation Pd-Se nanoparticles in inhibition of the macrophage inflammatory response in rheumatoid arthritis. Acta Pharm Sin B. 2021 Mar;: IHC ;Mouse. 10.1016/j.apsb.2021.02.021
- **[IF=5.793]** Huiyuan Ji. et al. D-dopachrome tautomerase activates COX2/PGE2 pathway of astrocytes to mediate inflammation following spinal cord injury. J Neuroinflamm. 2021 Dec;18(1):1-16 IF ;Rat. 34116703
- **[IF=4.238]** Nan Du. et al. Adult astrocytes from reptiles are resistant to proinflammatory activation via sustaining Vav1 expression. J Biol Chem. 2021 Mar;:100527 IF ;Gekko japonicus geckos. 33705794