bs-0512R **[Primary Antibody]**

CD2AP Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 23607 **SWISS:** Q9Y5K6

Target: CD2AP

Immunogen: KLH conjugated synthetic peptide derived from human CD2AP: 561-639/639.

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: This gene encodes a scaffolding molecule that regulates the actin cytoskeleton. The protein directly interacts with filamentous actin and a variety of cell membrane proteins through multiple actin binding sites, SH3 domains, and a proline-rich region containing binding sites for SH3 domains. The cytoplasmic protein localizes to membrane ruffles, lipid rafts, and the leading edges of cells. It is implicated in dynamic actin remodeling and membrane trafficking that occurs during receptor endocytosis and cytokinesis. Haploinsufficiency of this gene is implicated in susceptibility to glomerular disease. [provided by RefSeq, Jul 2008].

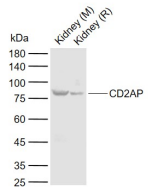
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Mouse, Rat (predicted: Human, Rabbit, Pig, Sheep, Cow, Chicken, Dog, GuineaPig, Horse)

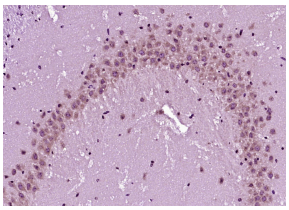
Predicted MW.: 71 kDa

Subcellular Location: Cytoplasm

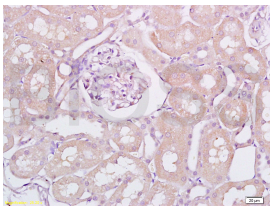
VALIDATION IMAGES



Sample: Lane 1: Mouse Kidney tissue lysates Lane 2: Rat Kidney tissue lysates Primary: Anti-CD2AP (bs-0512R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 71 kDa Observed band size: 77 kDa



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD2AP) Polyclonal Antibody, Unconjugated (bs-0512R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-CD2AP Polyclonal Antibody, Unconjugated(bs-0512R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=5.195]** Lifeng Wei. et al. Shenqi granule upregulates CD2AP and α-actinin4 and activates autophagy through regulation of mTOR/ULK1 pathway in MPC5 cells. J ETHNOPHARMACOL. 2023 Mar;303:115942 WB ;Mouse. 36442763
- **[IF=2.6]** Xiaoshan Zeng. et al.Hypoxia‐inducible factor‐1α attenuates renal podocyte injury in male rats in a simulated high‐altitude environment by upregulating Krüppel‐like factor 4 expression.experimental physiology.2024 Jul;109(7):1188-1198. Western blot ;Rat. 38774964
- **[IF=3.098]** Xinying Zhang. et al. Exogenous spermine attenuates diabetic kidney injury in rats by inhibiting

AMPK/mTOR signaling pathway. Int J Mol Med. 2021 Mar;47(3):1-1 WB ;Rat. 33537831

- **[IF=2.518]** Derya Karabulut. et al. A different perspective on the filtration barrier after kidney stone formation: An immunohistochemical and biochemical study. 2020 Nov 05 IHC ;Rat. 33155094
- **[IF=2.7]** Zeng Xiaoshan. et al. Hypoxia-inducible factor-1α attenuates renal podocyte injury in male rats in a simulated high-altitude environment by upregulating Krüppel-like factor 4 expression. EXP PHYSIOL. 2024 May;: WB,IHC ;Rat. 38774964