



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at -20C
#5478

CD2AP (A599) Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP, IF-IC	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Rabbit	UniProt ID: #Q9Y5K6	Entrez-Gene Id: 23607
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Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:100
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

CD2AP (A599) Antibody recognizes endogenous levels of total CD2AP protein.

Species predicted to react based on 100% sequence homology

Monkey

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala599 of human CD2AP protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

CD2AP is a scaffolding protein that is thought to link membrane proteins to the cytoskeleton (1-3). It plays a role in formation of tight junctions in specialized cell types such as the slit diaphragm in the kidney glomerulus (4). CD2AP is also involved in the immunological synapse between CD2 expressing T cells and antigen presenting cells (5). It has been shown that interaction between CD2AP and other cytoskeletal proteins may regulate the endocytosis of EGFR (3).

Background References

1. Kirsch, K.H. et al. (1999) *Proc. Natl. Acad. Sci. USA* 96, 6211-6216.
2. Kirsch, K.H. et al. (2001) *J. Biol. Chem.* 276, 4957-4963.
3. Lynch, D.K. et al. (2003) *J. Biol. Chem.* 278, 21805-21813.
4. Kawachi, H. et al. (2006) *Nephrology (Carlton)* 11, 274-281.
5. Hutchings, N.J. et al. (2003) *J. Biol. Chem.* 278, 22396-22403.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human **M:** Mouse

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