

**CD2AP (A599) Antibody**

**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

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

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

**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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