

#2135 Store at -20°C

CD2AP Antibody

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	80	Rabbit	#Q9Y5K6	23607

Product Usage Information

Application

Western Blotting

Dilution

1:1000

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 Antibody detects endogenous levels of total CD2AP protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids near the carboxy terminus of human CD2AP. 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

WB: Western Blotting

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster
X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse
GP: Guinea Pig Rab: rabbit All: all species expected

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