

#17327 Store at -20C

CD151 Antibody

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

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 28	Source: Rabbit	UniProt ID: #P48509	Entrez-Gene Id: 977
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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

CD151 Antibody recognizes endogenous levels of total CD151 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly138 of human CD151 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

CD151 (PETA-3, SFA-1) is a member of the evolutionarily conserved tetraspanin family of multipass glycoproteins (TM4SF), highlighted by four transmembrane domains, two extracellular loops, and N/C-termini that reside within the cytoplasm. Identified as the first member of the tetraspanin family to be implicated in tumorigenesis, research studies have demonstrated that CD151 participates in tumor neovascularization (1), tumor cell cell invasion (2), and cell adhesion (3). Furthermore, a positive correlation exists between CD151 expression levels and poor prognosis for tumors of the lung (4), kidney (5), and prostate (6). CD151 is localized predominantly to the plasma membrane and research studies have demonstrated that CD151 exerts its pro-tumorigenic effects, in part, through the modulation of laminin-binding integrins (7-9) and oncogenic receptor tyrosine kinases, such as c-Met (10,11) and EGFR (12).

Background References

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5. Yoo, S.H. et al. (2011) *Histopathology* 58, 191-7.
6. Ang, J. et al. (2004) *Cancer Epidemiol Biomarkers Prev* 13, 1717-21.
7. Sincock, P.M. et al. (1999) *J Cell Sci* 112 (Pt 6), 833-44.
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12. Yang, X.H. et al. (2008) *Cancer Res* 68, 3204-13.

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 nonfat dry milk, 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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