

#81254 Store at -20°C

PVR/CD155 (D8A5G) Rabbit mAb



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-Bond, IHC-P	H	Endogenous	60-80	Rabbit IgG	#P15151	5817

Product Usage Information

Application

Western Blotting

IHC Leica Bond

Immunohistochemistry (Paraffin)

Dilution

1:1000

1:100 - 1:400

1:100 - 1:400

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #31235.

Specificity / Sensitivity

PVR/CD155 (D8A5G) Rabbit mAb recognizes endogenous levels of total CD155 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asn188 of human CD155 protein.

Background

Poliovirus receptor (PVR, CD155) is an immunoglobulin-like, transmembrane glycoprotein originally described as a mediator of poliovirus attachment to cells and later identified as important in adherens junction formation. Also known as nectin-like 5 (Nect-5), PVR binds nectin-3 and interacts with integrin αvβ3 and PDGFR to regulate integrin clustering and focal contact formation at the leading edge of migrating cells (1,2). Research studies demonstrate that PVR and nectin-3 regulate contact inhibition during cell motility and proliferation in transformed 3T3 cells (3). Additional research indicates that PVR (CD155, Nect-5) expression may play a role in invasiveness of lung adenocarcinoma (4,5). In the immune system, CD155 plays a role in natural killer (NK) cell-mediated cytotoxicity (6).

Background References

1. Takai, Y. et al. (2008) *Nat Rev Mol Cell Biol* 9, 603-15.
2. Sakisaka, T. et al. (2007) *Curr Opin Cell Biol* 19, 593-602.
3. Minami, Y. et al. (2007) *Biochem Biophys Res Commun* 352, 856-60.
4. Tane, S. et al. (2013) *Exp Mol Pathol* 94, 330-5.
5. Nakai, R. et al. (2010) *Cancer Sci* 101, 1326-30.
6. Stanitsky, N. and Mandelboim, O. (2010) *FEBS Lett* 584, 4895-900.

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 **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin)

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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