

**PVR/CD155 (D8A5G) Rabbit mAb**

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

<b>Applications:</b> W, IHC-Bond, IHC-P	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 60-80	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P15151	<b>Entrez-Gene Id:</b> 5817
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**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), also known as CD155 and nectin-like 5 (Nectin-5), 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. PVR binds nectin-3 and interacts with integrin  $\alpha\beta 3$  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 expression may play a role in the 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**

**W:** Western Blotting **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin)

**Cross-Reactivity Key**

**H:** Human

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