

CD180/RP105 Antibody

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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:
W	H	Endogenous	98	Rabbit	#Q99467	4064

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

CD180/RP105 Antibody recognizes endogenous levels of total CD180/RP105 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp483 of human CD180/RP105 protein. Antibodies are purified by peptide affinity chromatography.

Background

CD180/RP105 is a type-I transmembrane glycoprotein that is restricted to expression in mature B-cells. Research studies have shown that CD180 engages signaling cascades in mature B-cells that drive cell proliferation (1-3). Indeed, CD180 functions with TLR4 as an LPS receptor on B-cells and, upon binding LPS, transmits proliferation and survival signals that require the Vav family of guanine nucleotide exchange factors (4-6).

Background References

1. Miyake, K. et al. (1995) *J Immunol* 154, 3333-40.
2. Yamashita, Y. et al. (1996) *J Exp Med* 184, 113-20.
3. Miura, Y. et al. (1998) *Blood* 92, 2815-22.
4. Nagai, Y. et al. (2002) *Blood* 99, 1699-705.
5. Ogata, H. et al. (2000) *J Exp Med* 192, 23-9.
6. Hebeis, B. et al. (2005) *Blood* 106, 635-40.

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

Cross-Reactivity Key

H: Human

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