# Human DcR3/TNFRSF6B Antibody

Monoclonal Mouse $IgG_1$ Clone # 229817

Catalog Number: MAB21351

## DESCRIPTION

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|---|---|
| **Species Reactivity** | Human |
| **Specificity** | Detects human DcR3/TNFRSF6B in ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human (rh) OPG, recombinant mouse (rm) OX40, rhRANK, rhRELT, rhTAJ, rhTNF RI, rhTNF RII, rhTRADD, rhTWEAK R, rhTRAIL RI, rhTRAIL R2, rhTRAIL R3, or rhTRAIL R4 is observed. |
| **Source** | Monoclonal Mouse $IgG_1$ Clone # 229817 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | Mouse myeloma cell line NS0-derived recombinant human DcR3/TNFRSF6B<br>Val24-His300<br>Accession # O95407 |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS. |

## APPLICATIONS

**Please Note:** *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Western Blot** | 1 µg/mL | Recombinant Human DcR3/TNFRSF6B Fc Chimera (Catalog # 142-DC) under non-reducing conditions only |
| ***Human DcR3/TNFRSF6B Sandwich Immunoassay*** | | **Reagent** |
| **ELISA Capture** | 2-8 µg/mL | Human DcR3/TNFRSF6B Antibody (Catalog # MAB21351) |
| **ELISA Detection** | 0.5-2.0 µg/mL | Human DcR3/TNFRSF6B Biotinylated Antibody (Catalog # BAM2135) |
| **Standard** | | Recombinant Human DcR3/TNFRSF6B Fc Chimera (Catalog # 142-DC) |

## PREPARATION AND STORAGE

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| **Reconstitution** | Reconstitute at 0.5 mg/mL in sterile PBS. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| **Stability & Storage** | **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

## BACKGROUND

Human decoy receptor 3 (DcR3), also called TNFRSF6B, TR6 and M68, is a member of the TNF receptor superfamily. The cDNA of DcR3 encodes a 300 amino acid (aa) polypeptide with a putative 23 aa signal peptide. Like osteoprotegerin (OPG), DcR3 lacks a transmembrane sequence and is a secreted protein. DcR3 shares sequence identity with OPG (31%), TNFRII (29%) and Fas (17%). It was found to be expressed in a variety of different tissues and at high levels in many malignant tumors. Among TNF family members, DcR3 was shown to bind with Fas ligand (FasL) and LIGHT and inhibit FasL- and LIGHT-induced apoptosis. Thus, in addition to DcR1, DcR2 and OPG, DcR3 is another TNFR family molecule which modulates ligands that induce apoptosis. Overexpression of DcR3 might be a mechanism by which certain tumors escape immune-cytotoxic attack.

**References:**


1. Pitti, R.M. *et al.* (1998) Nature **396**:699.
2. Yu, K-Y. *et al.* (1999) J. Biochem. Chem. **274**:13733.
3. Bai, C. *et al.* (2000) Proc. Natl. Acad. Sci. USA. **97**:1230.





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