

Product Datasheet

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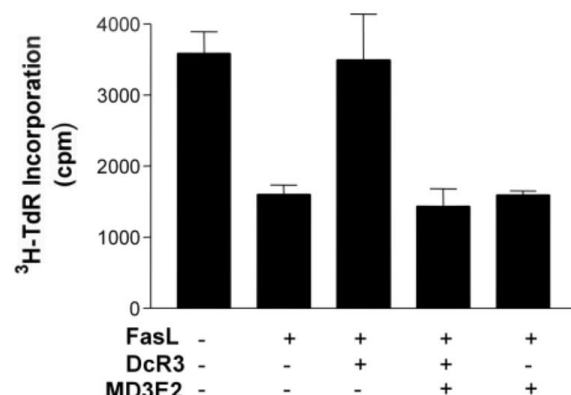


Anti-Decoy Receptor 3 (DcR3) [Clone MD3E2] - Purified *in vivo* GOLD™ Functional Grade

Recombinant Monoclonal Antibody

Product Information

Product No.: D114
Clone: MD3E2
Isotype: Mouse Mouse IgG



Product Description

Specificity:
MD3E2 activity is directed against DcR3.

Antigen Distribution:
DcR3 is expressed in a wide variety of normal human tissues as well as various cancers. DcR3 is detectable in granulosa cells, endometrial cells, theca cells, undifferentiated primary keratinocytes, monocytes, dendritic cells, synovial fluids, and chondrocytes, among others.

Background:
DcR3 (also known as TR6, M68, and TNFRSF6B) is a member of the tumor necrosis factor receptor superfamily^{1,2}. DcR3 acts as a soluble decoy receptor that can modulate the effect of TNF surface receptors by competing for binding to the TNF family ligands Fas ligand, LIGHT, and TL1A. DcR3 also plays a role in the immune system by modulating T cell responses as well as differentiation and

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maturation of dendritic cells. Additionally, DcR3 likely plays a role in keratinocyte differentiation and egg fertilization².

DcR3 is normally expressed at very low levels but is upregulated in tumors and inflammatory tissues². Accordingly, DcR3 is regarded as a potential biomarker for cancer metastasis and as a predictor of inflammatory disease progression. In tumors, upregulation of DcR3 prevents apoptosis and promotes growth, invasion, and angiogenesis. Additionally, upregulation of DcR3 as part of the TL1A/death receptor 3 (DR3/TNFRSF25) axis is important to the pathogenesis of various inflammatory and autoimmune diseases including silicosis, bacterial infection, coronary artery disease, inflammatory bowel disease, osteoarthritis, and rheumatoid arthritis. DcR3 can also be upregulated by ultraviolet light, epidermal growth factor, and transforming growth factor (TGF)- α .

MD3E2 was generated against full-length human DcR3 by hybridoma technology¹. An antibody panel was screened for binding to both the full-length protein as well as the exon I portion of DcR3, spanning residues 1-424. MD3E2 was found to selectively recognize the full-length DcR3. MD3E2 was produced for use in ELISA assays to quantify soluble DcR3.

Known Reactivity Species:

Human

Expression Host:

HEK-293 Cells

Format:

in vivo GOLD™, Purified in vivo Functional Grade

Immunogen:

Full length human DcR3

Formulation

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

Purity

≥95% monomer by analytical SEC, >95% by SDS Page

Endotoxin

< 1.0 EU/mg as determined by the LAL method

Storage and Stability

Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C.

Avoid Repeated Freeze Thaw Cycles.

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Product Preparation

Functional grade preclinical antibodies are manufactured in an animal free facility using only *in vitro* protein free cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

Other Applications Reported in Literature:

ELISA,
FA,
FACS,
IHC,
WB

Country of Origin

USA

References

- 1 Chen J, Zhang L, Kim S. J Immunol Methods. 285(1):63-70. 2004.
- 2 Hsieh SL, Lin WW. J Biomed Sci. 24(1):39. 2017.

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