

Product Datasheet

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Anti-Mouse CD134 [Clone OX-86] — Purified *in vivo* GOLD™ Functional Grade

Monoclonal Antibody

Product Information

Product No.:	C855
Clone:	OX-86
Isotype:	Rat Rat IgG1
Storage:	Sterile 2-8°C

Product Description

Specificity:

Clone OX-86 reacts with murine CD134 (OX-40, TNFRSF4).

Antigen Distribution:

CD134 is expressed on activated CD4 and CD8 T cells, activated regulatory T cells, B cells, NKT cells, NK cells, and neutrophils.

Background:

CD134 functions as an important immune checkpoint, and its depletion in murine mouse models demonstrate that lack of CD134 expression leads to reduced CD4+ and CD8+ T cells¹. When CD134 is bound by its corresponding ligand (OX-40L), an optimal T cell response is generated and plays a significant role in determining the amount of memory T-cells remaining after the immune response¹. CD134 has also been found to play an important role in carcinogenesis, as treatment with activating *in vivo* antibodies against CD134 enhanced tumor growth, suggesting that CD134 is an important tumor suppressor, and its absence disrupts the immune response to tumors^{2,3}.

Known Reactivity Species:

Mouse

Format:

in vivo GOLD™, Purified *in vivo* Functional Grade

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

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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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 $\leq -70^{\circ}\text{C}$.

Avoid Repeated Freeze Thaw Cycles.

Product Preparation

Functional grade preclinical antibodies are manufactured in an animal free facility using *in vitro* 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:

FC

IHC

Country of Origin

USA

References

1. Redmond WL, Ruby CE, Weinberg AD. Crit Rev Immunol. 29(3):187-201. 2019
2. Morris A, Vetto JT, Ramstad T, et. al. Breast Cancer Res Treat. 67: 71–80. 2001.
3. Weinberg AD, Rivera MM, Prell R, et. al. J Immunol. 164: 2160–9. 2000.
4. al-Shamkhani A, Birkeland ML, Puklavec M, et. al. Eur J Immunol. Aug;26(8):1695-9. 1996.
5. Higgins LM, McDonald SA, Whittle N, et. al. J Immunol. Jan 1;162(1):486-93. 1999.

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