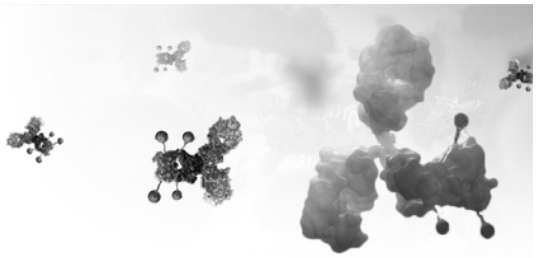

# Rat Anti-Mouse OX40 (CD134) Monoclonal antibody, clone OX-86 (CABT-L4372)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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| **Product Overview** | The OX-86 monoclonal antibody reacts with mouse OX-40 also known as CD134. OX-40 is a 50 kDa type I membrane glycoprotein and a member of the TNF receptor superfamily. |
| **Target** | Mouse OX40 (CD134) |
| **Immunogen** | Recombinant mouse OX40-CD4 chimeric protein |
| **Isotype** | IgG1, κ |
| **Source/Host** | Rat |
| **Species Reactivity** | Mouse |
| **Clone** | OX-86 |
| **Purification** | Protein G purified.<br>Purity>95%. Determined by SDS-PAGE |
| **Conjugate** | Functional Grade |
| **Applications** | in vivo OX40 activation, in vitro OX40 activation, WB |
| **Molecular Weight** | 150 kDa |
| **Format** | 0.2 μM filtered liquid. Purified from tissue culture supernatant in an animal free facility |
| **Concentration** | Lot specific |
| **Size** | 5 mg |
| **Buffer** | PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] |

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

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| | Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay<br>Related dilution buffer: CABT-LB04 |
| **Preservative** | None |
| **Storage** | The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze. |
| **Ship** | Wet ice |

# BACKGROUND

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| **Introduction** | The OX-86 monoclonal antibody reacts with mouse OX-40 also known as CD134. OX-40 is a 50 kDa type I membrane glycoprotein and a member of the TNF receptor superfamily. OX-40 is expressed on activated CD4 and CD8 T cells, but is not found on resting naïve T cells or most resting memory T cells. Although it was originally thought that OX-40 expression was restricted to activated conventional T cells, it has now been visualized on activated regulatory T cells, NKT cells, NK cells, and neutrophils. OX-40 plays a major role in regulating both CD4 and CD8 T cell clonal expansion. It provides a costimulatory signal to an antigen-reacting naive T cells to prolong proliferation, as well as augment the production of several cytokines. This is demonstrated by OX-40 knockout mice which generate fewer primary effector CD4 T cells after immunization. Furthermore, in vivo treatment with an agonist antibody to OX-40 has been shown to strongly enhance the generation of antigen-specific effector T cells and prevent the induction of T cell tolerance. The OX-86 antibody is an agonistic antibody that has been shown to delay tumor growth in vivo. |
| **Keywords** | TNFRSF4;tumor necrosis factor receptor superfamily, member 4;Ox40;ACT35;CD134;Ly-70;Txgp1;TXGP1L;tumor necrosis factor receptor superfamily member 4;OX40 antigen;OX40L receptor;tax-transcriptionally activated glycoprotein 1; |

# GENE INFORMATION

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|---|---|
| **Official Symbol** | tumor necrosis factor receptor superfamily, member 4 |
| **Synonyms** | TNFRSF4; tumor necrosis factor receptor superfamily, member 4; Ox40; ACT35; CD134; Ly-70; Txgp1; TXGP1L; tumor necrosis factor receptor superfamily member 4; OX40 antigen; OX40L receptor; tax-transcriptionally activated glycoprotein 1; |
| **References** | Bartkowiak, T., et al. (2015). "Unique potential of 4-1BB agonist antibody to promote durable regression of HPV+ tumors when combined with an E6/E7 peptide vaccine." Proc Natl Acad Sci U S A 112(38): E5290-5299. PubMed;Murray, S. E., et al. (2011). "NF-kappaB-inducing kinase plays an essential T cell-intrinsic role in graft-versus-host disease and lethal autoimmunity in mice." J Clin Invest 121(12): 4775-4786. PubMed; |

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