

Monoclonal Antibody to CD134 / TNFRSF4 - FITC

Alternate names:	ACT35 antigen, OX40L receptor, TAX transcriptionally-activated glycoprotein 1 receptor, TNFRSF4, TXGP1L, Tumor necrosis factor receptor superfamily member 4
Catalog No.:	AM01048FC-N
Quantity:	0.1 mg
Concentration:	0.1mg/ml
Background:	CD134 is a 43kDa type I membrane protein and member of the tumor necrosis factor receptor superfamily, expressed predominantly by CD4+ activated T cells, and a key regulator of T cell-dependent immune responses CD134 has been identified as the receptor for the OX40 ligand, CD252, expressed by activated B cells, acting as a co-stimulatory signal for the stimulation and secretion of immunoglobulins. CD134 has also been identified as a binding receptor for Feline Immunodeficiency Virus (FIV), acting along with CXC chemokine receptor 4 (CXCR4) to facilitate the entry of the virus into CD4+ primary target cells.
Uniprot ID:	P43489
NCBI:	9606
Host / Isotype:	Mouse / IgG1
Clone:	7D6
Immunogen:	CHO-derived feline CD134-Fc fusion protein.
Format:	State: Liquid purified Ig Purification: Affinity chromatography on Protein G Buffer System: Phosphate buffered saline pH7.4 containing 0.09% Sodium Azide (NaN ₃), 1% Bovine Serum Albumin Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: 1/5; use 10µl of the suggested working dilution to label 1x10 ⁶ cells in 100µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises feline CD134, otherwise known as OX40. The antibody weakly reacts with human. It does not react with mouse. Species: Feline. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.

Caution: (A full Health and Safety assessment is available upon request) This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

General Readings:

1. Arch RH, Thompson CB. 4-1BB and Ox40 are members of a tumor necrosis factor (TNF)-nerve growth factor receptor subfamily that bind TNF receptor-associated factors and activate nuclear factor kappaB. *Mol Cell Biol.* 1998 Jan;18(1):558-65. PubMed PMID: 9418902.
2. Stüber E, Strober W. The T cell-B cell interaction via OX40-OX40L is necessary for the T cell-dependent humoral immune response. *J Exp Med.* 1996 Mar 1;183(3):979-89. PubMed PMID: 8642301.
3. de Parseval A, Chatterji U, Sun P, Elder JH. Feline immunodeficiency virus targets activated CD4+ T cells by using CD134 as a binding receptor. *Proc Natl Acad Sci U S A.* 2004 Aug 31;101(35):13044-9. Epub 2004 Aug 23. PubMed PMID: 15326292.

Pictures: Lane1 - Feline CD134 expressing cells Lane2 - Control cells Lane3 - Recombinant feline CD134-Fc fusion protein (clone 7D6) used at 1µg/ml

