Aconian Biotech Your choice for selective antibodies



Reccombinant Version of Classic Clone

Cat nr AE00317

Product Datasheet

Rabbit Recombinant Antibody, TKS-1R to:

mouse CD137L, 4-1BBL

Tumor necrosis factor ligand superfamily member 9; tumor necrosis factor (ligand) superfamily, member 9; CD137 ligand; 4-1BB ligand; 4-1BBL; 4-1BB-L; AI848817; Cd137I; Cd157I; Ly63I; Ly63I

| Cellular localization | surface of cell membranes |
|--|--|
| Official Symbol (Gene) GenelD SwissProt | Tnfsf9 21950 P41274 |
| Confirmed Applications Positive controls Aeonian Rating© | FC, Blocking LPS-activated dendritic cells, LPS-activated macrophages, B lymphoma cell lines, macrophage cell lines 100 |
| Purification | By Protein A from bioreactor concentrate |
| Formulation | 1 mg IgG/ml in PBS with 0.02% Proclin 300 200ug 1000ug Rabbit IgG, recombinant chimeric version of rat IgG2a clone TKS-1 Mouse CD137L-transfected NRK cells. |
| Epitope | Near or at the CD137 binding site (Mbanwi et al) |
| Storage instructions | Avoid repeated freeze/thaw cycles. For long term storage, keep small aliquots at -20C or -80C and keep one aliquot at 4C for daily experimentations. Azide will preserve antibody at 4C for 6-12 months, when kept away from direct sun light. |
| Expiration | Integrity warranted for 24 months after purchase when handled and stored according to instructions, see below. |
| Warranty | This product is only warranted for the specifications as described in this product sheet and only when the product is handled and stored according to instructions. User should validate this antibody in the application and tissue/cell type as required, after confirmation of integrity upon receipt is obtained by reproducing the performance as described below. Should such confirmation not be attempted, any warranty is void. In case of non-conformance, user needs to contact us immediately for replacement or refund. |
| Liability | This product is for in vitro research use only. Any other applications, such as diagnostics or therapeutics, or in vivo experiments, and the validation of this product therein, are solely at the responsibility of the buyer/user. |
| Product performance | see next pages |

Product data:

Immunoassays

Flow Cytometry (FC):

The original clone TKS-1 was successfully used on murine cell lines and on splenic activated T cells. Futagawa T, Akiba H, Kodama T, Takeda K, Hosoda Y, Yagita H, Okumura K. Expression and function of 4-1BB and 4-1BB ligand on murine dendritic cells. Int Immunol. 2002 Mar;14(3):275-86. doi: 10.1093/intimm/14.3.275. PMID: 11867564.

The original clone TKS-1 was successfully used on murine LPS-activated bone marrow derived dendritic cel Mbanwi AN, Lin GHY, Wang KC, Watts TH. Constitutive interaction between 4-1BB and 4-1BBL on murine LPS-activated bone marrow dendritic cells masks detection of 4-1BBL by TKS-1 but not 19H3 antibody. J Immunol Methods. 2017 Nov;450:81-89. doi: 10.1016/j.jim.2017.08.001. PMID: 28789924.

Biological activity

Blocking CD137/CD137L signalling through splenic dendritic cells:

The original clone TKS-1 was successfully used to block CD137/CD137L signalling in splenic dendritic cell Futagawa T, Akiba H, Kodama T, Takeda K, Hosoda Y, Yagita H, Okumura K. Expression and function of 4-1BB and 4-1BB ligand on murine dendritic cells. Int Immunol. 2002 Mar;14(3):275-86. doi: 10.1093/intimm/14.3.275. PMID: 11867564.

Partially blocking CD137/CD137L signalling in cocultured astrocytes/microglia: The original clone TKS-1 was successfully used to partially block CD137/CD137L signalling in lipid-laden astrocytes seeded with TKS-1 pretreated microglia.

Kim J, Kwon YH, Kim CS, Tu TH, Kim BS, Joe Y, Chung HT, Goto T, Kawada T, Park T, Choi MS, Kim MS, Yu R. The involvement of 4-1BB/4-1BBL signaling in glial cell-mediated hypothalamic inflammation in obesity. FEBS Open Bio. 2018 Apr 19;8(5):843-853. doi: 10.1002/2211-5463.12426. PMID: 29744298.

Blocking the CD137 binding site in LPS-activated bone marrow dendritic cells: The original clone TKS-1 was successfully used to block the CD137 binding site in murine LPS-activated dendritic cells.

Mbanwi AN, Lin GHY, Wang KC, Watts TH. Constitutive interaction between 4-1BB and 4-1BBL on murine LPS-activated bone marrow dendritic cells masks detection of 4-1BBL by TKS-1 but not 19H3 antibody. J Immunol Methods. 2017 Nov;450:81-89. doi: 10.1016/j.jim.2017.08.001. PMID: 28789924.