# Anti-CD2 [X53 (X/3)]

Catalogue number: 151341 Sub-type: Primary antibody

Images:

#### Contributor

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Images:

## **Tool details**

#### \*FOR RESEARCH USE ONLY

Name: Anti-CD2 [X53 (X/3)]

ols.org Alternate name: CD2 Molecule; CD2 Antigen (P5); Sheep Red Blood Cell Receptor; T-Cell Surface

Antigen T11/Leu-5; Erythrocyte Receptor; Rosette Receptor; LFA-3 Receptor

Class: Monoclonal

Conjugate: Unconjugated

**Description:** T-cell surface antigen CD2 is an antigen of the human T lymphocyte lineage that is expressed on all peripheral blood T cells. It is one of the earliest T cell markers, being present on more than 95% of thymocytes; it is also found on some natural killer cells but not on B lymphocytes. CD2 interacts with lymphocyte function associated antigen (LFA3/CD58) and CD48/BCM1 to mediate adhesion between T cells and other cell types. Intracellularly, it interacts with lck. CD2 can be used for monitoring T-cell number in periperal blood, and identification of lymphomas and leukaemias of T-cell origin.

Purpose: Parental cell: Organism: Tissue: Model: Gender:

Isotype: IgG1 kappa Reactivity: Human

Selectivity: Host: Mouse

Immunogen: T cell lymphoma cells

**Immunogen UNIPROT ID:** 

Sequence:

**Growth properties:** 

**Production details:** 

Formulation:

Recommended controls:

**Bacterial resistance:** Selectable markers: Additional notes:

## **Target details**

Target: CD2

#### Target alternate names:

**Target background:** T-cell surface antigen CD2 is an antigen of the human T lymphocyte lineage that is expressed on all peripheral blood T cells. It is one of the earliest T cell markers, being present on more than 95% of thymocytes; it is also found on some natural killer cells but not on B lymphocytes. CD2 interacts with lymphocyte function associated antigen (LFA3/ CD58) and CD48/BCM1 to mediate adhesion between T cells and other cell types. Intracellularly, it interacts with lck. CD2 can be used for CancerTools monitoring T-cell number in periperal blood, and identification of lymphomas and leukaemias of T-cell origin.

Molecular weight:

Ic50:

## **Applications**

**Application:** FACS ; IHC

**Application notes:** 

## **Handling**

Format: Liquid

Concentration: 0.9-1.1 mg/ml

Passage number: **Growth medium: Temperature: Atmosphere:** Volume:

Storage medium:

Storage buffer: PBS with 0.02% azide Storage conditions: -15° C to -25° C Shipping conditions: Shipping at 4° C

### Related tools

Related tools:

#### References

References: Desamero et al. 2019. Sci Rep. 9(1):19635. PMID: 31873082. ; Helbling-Leclerc et al. 2019. Sci Rep. 9(1):17024. PMID: 31745226. ; Paul et al. 2019. J Immunother Cancer. 7(1):208. PMID: 31387637.; Dick et al. 2019. Nat Immunol. 20(5):664. PMID: 30862954.; Xu et al. 2019. Sci Adv. 5(4):eaav4570. PMID: 31032410.; Jimenez et al. 2019. Front Immunol. 10:2183. PMID: 31620123.; Zilio et al. 2017. J Immunol. :. PMID: 28396317. ; 4PD Fnized Dendrimers: A Flexible Tool for In Vivo Gene Silencing of Tumor-Educated Myeloid Cells.; Maternal obesity leads to increased proliferation and numbers of astrocytes in the developing fetal and neonatal mouse hypothalamus. ; Kim et al. 2016. Int J Dev Neurosci.: PMID: 27326907.; Yao et al. 2016. Sci Rep. 6:26050. PMID: 27198662.; Fn assessment of glioma pathogenesis by in vivo multi-parametric magnetic resonance imaging and in vitro analyses.; Zhao et al. 2015. Oncogene.:. PMID: 26657156.; CBP/catenin antagonist safely eliminates drug-resistant leukemia-initiating cells.; Intratracheal cell transfer demonstrates the profibrotic potential of resident fibroblasts in pulmonary fibrosis.; Tsukui et al. 2015. Am J Pathol. :. PMID: 26456579.; Cui et al. 2015. Cell. 161(4):750-61. PMID: 25957683.; IL-7-Induced Glycerol Transport and TAG Synthesis Promotes Memory CD8+ T Cell Longevity.; Sheikh et al. 2015. Oncogene. PMID: 25772242.; MOZ (MYST3, KAT6A) inhibits senescence via the INK4A-ARF pathway.; Lin et al. 2013. Invest Ophthalmol Vis Sci. 54(3):1920-30. PMID: 23439595.; Involvement of SDF1a and STAT3 in granulocyte colony-stimulating factor rescues optic ischemia-induced retinal function loss by mobilizing hematopoietic stem cells.; Innis et al. 2010. Am J Physiol Gastrointest Liver Physiol. 299(6):G1376-85. PMID: 20864654.; Perinatal lipid nutrition alters early intestinal development and programs the response to experimental colitis in young adult rats.; Zindy et al. 2006. Proc Natl Acad Sci U S A. 103(31):11579-83. PMID: 16864777.; N-Myc and the cyclin-dependent kinase inhibitors p18lnk4c and p27Kip1 coordinately regulate cerebellar development.; Magaud et al. 1989. J Histochem Cytochem. 37(10):1517-27. PMID: 2476478.; Double immunocytochemical labeling of cell and tissue samples with monoclonal anti-bromodeoxyuridine.