

Rabbit Anti-CD28/AP Conjugated antibody

SL1297R-AP

Product Name	Anti-CD28/AP
Chinese Name	碱性磷酸酶（AP）标记的 CD28 抗体
Alias	CD 28; CD28 antigen; CD28 molecule; MGC138290; T cell antigen CD28; T cell specific surface glycoprotein; T cell specific surface glycoprotein CD28; Tp44.
Research Area	Cell biology immunology Stem cells Cell adhesion molecule Cell Surface Molecule lymphocyte t-lymphocyte b-lymphocyte
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse,Rat(predicted:Human,Chicken,Dog,Pig,Cow,Horse) IHC-P=1:100-500,IHC-F=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	25kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from mouse CD28
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Storage	
Product Detail	background: Human CD28 antigen is a 44 kDa disulfide linked homodimeric T cell specific surface glycoprotein. It is a cell adhesion molecule of the immunoglobulin superfamily which is constitutively expressed on most peripheral blood T lymphocytes (approximately 95% of CD4+ cells and 50% of CD8+ cells). Mature thymocytes exhibit higher levels of CD28 than the immature cells.

Activation of T cells results in enhanced CD28 expression. T cell activation requires two combined signals provided by antigen presenting cells. The first is mediated via the T cell receptor following its interaction with antigenic peptide MHC complexes, and the second is delivered by accessory or costimulating molecules through their counter receptors on T lymphocytes. CD28 bears structural homology to CTLA 4 which is expressed at very low levels on the surface of CD4+ and CD8+ peripheral blood cells only following activation. CD28 is the natural receptor for the B7/BB 1 ligand (CD80) a 55-60 kDa glycoprotein which is expressed on activated B lymphocytes, on dendritic cells and on interferon gamma treated monocytes. The binding of B7 1/BB 1 molecules to CD28 is involved in T lymphocyte activation and in the initiation and maintenance of chronic inflammation.

Function:

Possibly involved in T-cell activation.

Subunit:

Homodimer; disulfide-linked. Interacts with DUSP14. Binds to CD80/B7-1 and CD86/B7-2/B70.

Subcellular Location:

Membrane; Single-pass type I membrane protein.

Similarity:

Contains 1 Ig-like V-type (immunoglobulin-like) domain.

Database links:

[Entrez Gene: 940](#) Human

[Entrez Gene: 12487](#) Mouse

[Omim: 186760](#) Human

[SwissProt: P10747](#) Human

[SwissProt: P31041](#) Mouse

[SwissProt: P42069](#) Rabbit

[Unigene: 591629](#) Human

[Unigene: 255003](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in



human, therapeutic or diagnostic applications.

CD28 是免疫球蛋白超家族成员之一，为 T 细胞特异性由二硫键连接的同源二聚体表面 glycoprotein，主要分布在外周血 lymphocyte。对迟发型超敏反应以及 Tc 介导的细胞毒作用都有免疫调节作用。