

CD28 antibody [CD28.2]

Cat. No. GTX13463

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Applications	ICC/IF, IHC-Fr, FCM, IP
Reactivity	Human, Mouse, Baboon, Chimpanzee, Cynomolgus monkey, Rhesus Monkey, Sooty Mangabey

References (14)

Package

100 µg

PRODUCT

Summary

The CD28.2 antibody reacts with human CD28, a 44 kDa type I surface glycoprotein which acts as a co-stimulatory receptor in support of the T cell receptor (TCR). CD28 exists as a homodimer with specificity for two known ligands, known as B7-1 (CD80) and B7-2 (CD86), which are expressed on activated B cells and antigen-presenting cells. These ligands trigger CD28 signaling in concert with TCR activation to drive T cell proliferation, induce high-level expression of IL-2, impart resistance to apoptosis, and enhance T cell cytotoxicity. The interaction / co-stimulatory signaling between the B7 ligands and CD28 provides crucial communication between T cells and B cells or APCs to coordinate the adaptive immune response. Other members of the CD28 family of receptors include CTLA-4 (CD152), PD-1 (CD279), ICOS and BTLA.

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
ICC/IF	Assay dependent
IHC-Fr	Assay dependent
FCM	Assay dependent
IP	Assay dependent

Not tested in other applications.

Product Note

Recognizes the CD28 (44 kDa) human cell surface disulfide-linked, homodimeric glycoprotein. The antibody reacts with human CD28-transfected murine T-cell hybridoma, PHA-activated blasts and IL-6 dependent plasmacytoma lines. It cross reacts with rhesus monkey PBL. The antibody blocks CD28/B7 (CD80) mediated cell-cell adhesion. It binds to the CDR domain in a CDR1 dependent manner. It enhances CD3 monoclonal antibody-induced T-cell proliferation. May be used in adhesion and co-stimulation studies.

Properties

Form	Liquid
Buffer	10mM NaH ₂ PO ₄ , 150mM NaCl
Preservative	0.09% Sodium azide
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4°C.



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Concentration	0.5 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	human CD28 transfected murine T cell hybridoma.
Purification	Purified by affinity chromatography From tissue culture supernatant
Conjugation	Unconjugated
Note	<p>For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.</p> <p>Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.</p>



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