

## Product datasheet

### anti-CD28 agonist mouse monoclonal, CD28A-49, purified

#### Short overview

<b>Cat. No.</b>	691573
<b>Quantity</b>	1 ml (100 µg/ml)
<b>Concentration</b>	100 µg/ml

#### Product description

<b>Host</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Isotype</b>	IgG1
<b>Clone</b>	CD28A-49
<b>Immunogen</b>	rCD28
<b>Formulation</b>	PBS with 0.02% sodium azide
<b>UniprotID</b>	P10747 (Human)
<b>Synonym</b>	T-cell-specific surface glycoprotein CD28, TP44, CD antigen CD28, CD28
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity chromatography
<b>Storage</b>	2-8°C
<b>Intended use</b>	Research use only
<b>Application</b>	FACS, ICC/IF, IHC
<b>Reactivity</b>	Human

#### Applications

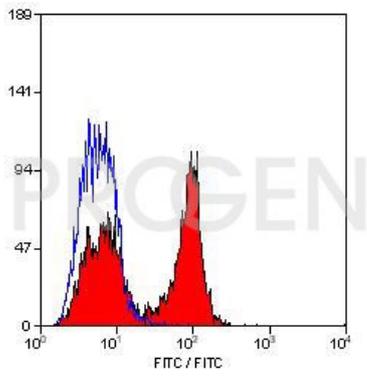
<b>Flow Cytometry (FACS)</b>	0.5-1.0 µg/million cells in 0.1 ml
<b>Immunocytochemistry (ICC)</b>	1:100-1:200 (0.5-1.0 µg/ml)
<b>Immunohistochemistry (IHC) - frozen</b>	1:25-1:50 (2-4 µg/ml)

#### Background

CD28 is the critical T-cell co-stimulatory receptor, which provides the important second activation signal by binding CD80 and CD86 that are expressed by antigen presenting cells. Besides its co-stimulation role, CD28 functions in preventing T-cells from anergic hyporesponsive state or from undergoing premature apoptotic cell death. CD28 is also expressed on human fetal NK cells and some NK cell lines, whereas on murine NK cells the CD28 expression is much broader. CD28A-49 acts as agonist of CD28 mediated stimulation.

Positive control: Jurkat cells or human lymph nodes and tonsils.

#### Product images



FACS with human peripheral blood lymphocytes (PBL)