

## Product datasheet for **AM08121PU-N**

### CD28 Mouse Monoclonal Antibody [Clone ID: AV7]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	AV7
Applications:	FC, FN, IP
Recommended Dilution:	<b>Flow Cytometry.</b> (Ref.1) <b>Immunoprecipitation.</b> (Ref.1) <b>In vitro T-cell costimulation.</b> (Ref.2)
Reactivity:	Chicken
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	This antibody recognizes Chicken CD28, a monomeric molecule of Mr 40-44 kDa with 50% amino acid sequence identity with mammalian CD28.
Formulation:	100 mM Borate Buffered Saline, pH 8.2. No preservatives or amine-containing buffer salts added. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD28 molecule
Database Link:	<a href="#">Entrez Gene 396249 Chicken P31043</a>



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**Background:**

Chicken CD28 antigen is a type I transmembrane monomeric glycoprotein which does not contain the cysteine residues that form disulfide-linked covalent homodimers found in the mammalian counterpart. This may reduce the avidity of binding to individual ligand molecules expected to be present on Ag presenting cells. Peripheral gamma/delta+ T cells are CD28-negative. (Ref.1) Monoclonal antibodies against CD28 have a costimulatory effect on T cells stimulated by phorbol myristate acetate (PMA), concanavalin A or MAbs against the avian T cell receptor (TCR). Both Vbeta1- and Vbeta2-expressing cells respond equally well to stimulation with anti-CD28 in combination with PMA. These responses are resistant to cyclosporin A, but inhibited by herbimycin A, suggesting that CD28 employs a signalling pathway at least partly distinct from that triggered by TCR/CD3. (Ref.2)

**Synonyms:**

TP44