

## Product datasheet for **SM3036P**

### CD7 Mouse Monoclonal Antibody [Clone ID: MEM-186]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-186
Applications:	FC, IHC, IP, WB
Recommended Dilution:	Immunoprecipitation. Flow cytometry: 2 µg/ml. Western blot (non reducing conditions). Immunohistochemistry (paraffin sections): 5 µg/ml, positive tissue: spleen.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human acute myelogenous leukaemia cell line KG-1
Specificity:	The antibody reacts with CD7, a 40 kD type I transmembrane glycoprotein expressed on peripheral blood T lymphocytes, NK-cells, hematopoietic progenitors, monocytes (weakly) and also on acute lymphocytic leukemia.
Formulation:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 State: Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Precipitation methods and ion exchange chromatography; Purity: > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD7 molecule
Database Link:	<a href="#">Entrez Gene 924 Human P09564</a>



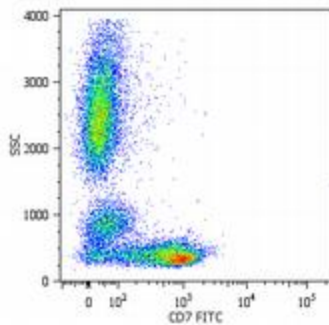
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**Background:**

CD7, also known as gp40, is a member of the immunoglobulin superfamily found on T cells, NK cells, thymocytes, hematopoietic progenitors, and monocytes (weakly). CD7 is also expressed on acute lymphocytic leukemia (ALL). CD7 crosslinking induces a calcium flux in T lymphocytes, presumably as a result of cytoplasmic domain association with PI3-kinase. CD7 co-stimulation can induce cytokine secretion and modulate cellular adhesion. A ligand of CD7, epithelial cell secreted protein K12, is produced in thymus to regulate thymocyte signaling and cytokine release. In lung microvascular endothelial cells CD7 serves as an IgM Fc receptor. Expression of CD7 is an important marker used in leukemia diagnostics.

**Synonyms:**

GP40, TP41, Leu-9

**Product images:**

Surface staining of human peripheral blood cells with anti-human CD7 (MEM-186) FITC.