

## Product datasheet for **TA363843**

### CD117 Rat Monoclonal Antibody [Clone ID: ACK4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	ACK4
Applications:	IHC
Recommended Dilution:	Tested for immunohistochemistry (IHC); has been described to work in FACS. Approximate working dilution for IHC: Frozen sections: 0.4µg/ml (1:1000) Paraffin sections: does not react on routinely processed paraffin sections. Suggested positive control: Mouse spleen and tongue
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	IL-3 dependent mast cells derived from WB+/+ mice.
Specificity:	Mouse: receptor for stem cell factor Other species: not tested

**Epitope:** The antigen is a 145kD membrane protein (reduced or unreduced) that belongs to the immunoglobulin supergene family. The epitope has not been characterized.

**Distribution:** Isolated Cells: The antigen is described to be present on 5-10% of total adult bone marrow cells. Tissue Sections: The antigen is expressed on CD117 positive cells in various tissues e.g. in mouse spleen and tongue. There is a staining on cells in the red pulp of spleen, whereas there are only few cells with strong staining in tongue.

Formulation:	Affinity purified, lyophilized Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.4mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.09% sodium azide as a preservative.
Concentration:	N/A
Conjugation:	Unconjugated
Storage:	Original vial: 1 year at 4° - 8°C. Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
Gene Name:	kit oncogene



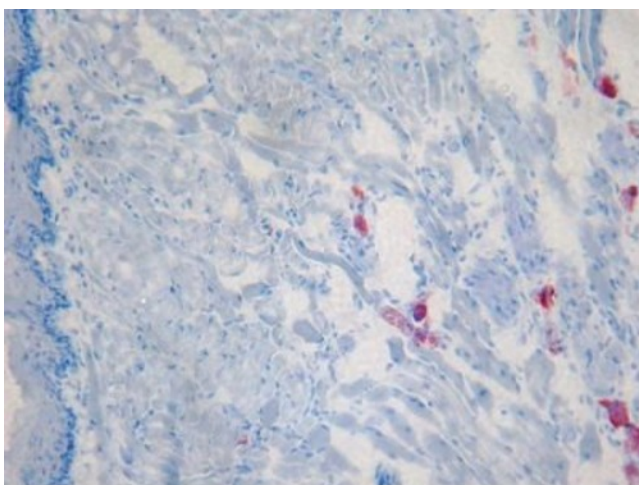
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**Database Link:** [Entrez Gene 16590 Mouse P05532](#)

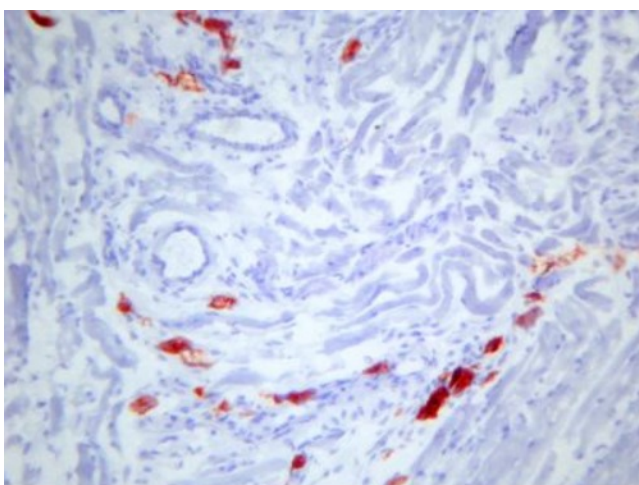
**Background:** Monoclonal antibody ACK4 recognizes the receptor for Stem Cell Factor (SCF) / Steel Factor. The cellular function of CD117 is that of a growth factor receptor. The ligand exists in both soluble and membrane form. The interaction between SCF and c-kit is essential for the development of hematopoietic, gonadal and pigment stem cells. c-kit positive cells are a subset of CD34+ hematopoietic precursor cells, expression of CD117 can be found on 5-10% of total adult bone marrow cells.

**Synonyms:** C-Kit; CD117; PBT; SCFR

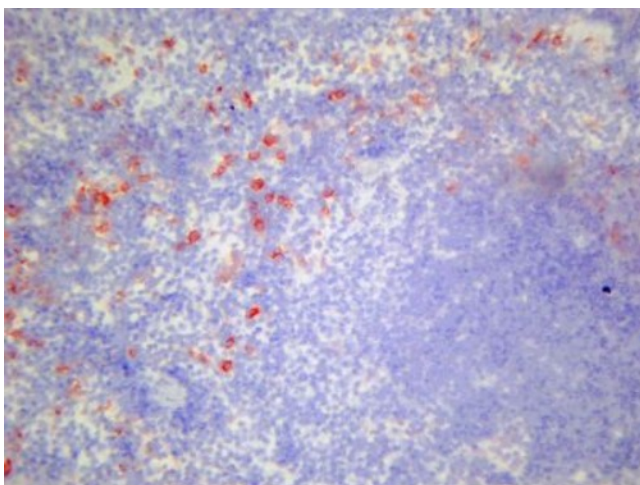
**Product images:**



TA363843, Clone ACK4, mouse tongue, frozen section



TA363843, Clone ACK4, mouse tongue, frozen section



TA363843, Clone ACK4, mouse spleen, frozen section