

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CD117/c-kit in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 15% cross-reactivity with recombinant human CD117 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse CD117/c-kit Gln25-Thr519 (Ala207Glu) Accession # P05532
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

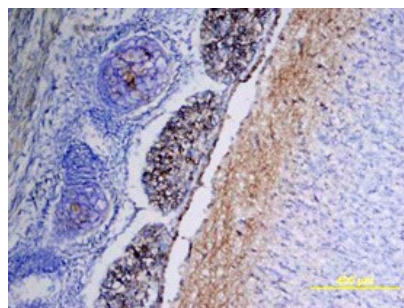
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the [Technical Information](#) section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse CD117/c-kit
Flow Cytometry	2.5 µg/10 ⁶ cells	Lineage depleted mouse bone marrow cells
Immunohistochemistry	5-15 µg/mL	See Below

DATA

Immunohistochemistry



CD117/c-kit in Mouse Embryo.

CD117/c-kit was detected in immersion fixed frozen sections of mouse embryo using Mouse CD117/c-kit Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1356) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Stem cell factor receptor (CD117, the gene product of the c-kit protooncogene) and its ligand, stem cell factor (also named c-kit ligand, mast cell growth factor), play essential roles in gametogenesis, melanogenesis and hematopoiesis. It is a transmembrane tyrosine kinase that is expressed on endothelial cells, mast cells, megakaryocytes, stem cells and multiple embryonic cells, such as melanoblasts and primordial germ cells.