

#### In Vivo Ready<sup>™</sup> Anti-Mouse CD117 (c-Kit) (ACK2) Antibody Catalog # ATB10151

### Specification

## In Vivo Ready<sup>™</sup> Anti-Mouse CD117 (c-Kit) (ACK2) Antibody - Product Information

Application Isotype Concentration Reactivity Formulation Host WB, IHC-P, FC, ICC, FA Rat IgG2b, kappa 2 mg/mL Mouse 10 mM NaH2PO4, 150 mM NaCl, pH7.2 Rat

### In Vivo Ready<sup>™</sup> Anti-Mouse CD117 (c-Kit) (ACK2) Antibody - Additional Information

Gene ID Gene Name Alternative Name(s) Steel Factor Receptor, SCFR, cKit 16590 Kit

Format In Vivo Ready™

#### Preparation

This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready<sup>™</sup> (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

#### **Application Notes**

This purified format is guaranteed to be >90% pure as determined by SDS-PAGE analysis. Citations are provided as a convenience to you - please consult Materials and Methods sections for additional details about the use of any product in these publications.

**Endotoxin Level** Less than or equal to 0.01 EU/ug, as determined by the LaL assay

**Storage Conditions** 2-8°C

### In Vivo Ready<sup>™</sup> Anti-Mouse CD117 (c-Kit) (ACK2) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence



- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

In Vivo Ready<sup>™</sup> Anti-Mouse CD117 (c-Kit) (ACK2) Antibody - Images

# In Vivo Ready<sup>™</sup> Anti-Mouse CD117 (c-Kit) (ACK2) Antibody - Background

The ACK2 antibody is specific for CD117, also called c-Kit, a 145 kDa cytokine receptor important in the development of hematopoietic stem cells, in oogenesis, and for functional activity of immune cells such as NK and mast cells. c-Kit binds to a ligand known as stem cell factor (SCF), or alternatively as mast cell growth factor. Ligand binding promotes the activation (dimerization) and subsequent tyrosine kinase activity of the c-Kit receptor and triggers key survival, expansion and maturation signals during hematopoietic progenitor cell development. Conversely, shedding of extracellular domain of c-Kit receptor is reported to induce inactivation or apoptosis within these cells. The survival signaling activity of c-Kit confers a proto-oncogenic attribute to the receptor, as overexpression or mutations in this protein are associated with tumor development.The ACK2 antibody is widely utilized as a marker to identify hematopoietic progenitors, and to neutralize receptor-ligand binding in vitro and in vivo. In addition, the antibody is reported to be cross-reactive with rat c-Kit and is extensively published for use in this species.