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# In Vivo Ready™ Anti-Mouse CD117 (c-Kit) (ACK2) Antibody

**Catalog # ATB10151**

## Specification

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

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

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

| | |
|---|---|
| Gene ID | **16590** |
| Gene Name | **Kit** |

**Alternative Name(s)**
Steel Factor Receptor, SCFR, cKit

**Format**
In Vivo Ready™

**Preparation**
This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (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™ Anti-Mouse CD117 (c-Kit) (ACK2) Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence

- Immunoprecipitation
- Flow Cytomety
- Cell Culture

**In Vivo Ready™ Anti-Mouse CD117 (c-Kit) (ACK2) Antibody - Images**

**In Vivo Ready™ 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.