

DATASHEET

CD117 Rabbit Monoclonal Antibody(ARB837)

CAT. NO. ARB6627

KEY FEATURES

Target	CD117	Clonality	Monoclonal
Clone ID	ARB837	Applications	IHC
Source / Host	Rabbit	Dilution	1:100-1:200
Reactivity	Human	Storage	at-20°C

BACKGROUND

CD117 is a cell membrane protein encoded by the c-kit proto-oncogene (chromosome 4q11-12). The protein is a type III tyrosine kinase growth factor receptor for stem cell factor (SCF), also known as mast cell growth factor. CD117 is required for the development and growth of a large number of cells expressing this protein. CD117 is expressed in mast cells, melanocytes and interstitial cells of Cajal (ICC). The cells (particularly the mast cells) show a strong membrane as well as cytoplasmic staining. CD117 moreover is expressed in various epithelia (breast, sweat glands and salivary glands, renal tubular cells, thyroid follicular cells), usually showing a weaker, cytoplasmic reaction. In tumor tissues, CD117 is expressed in most cases of Gastrointestinal stromal tumor (GIST), mast cell neoplasms, malignant melanoma (however, the expression of CD117 is lost during progression and metastasising), seminoma/dysgerminoma and intratubular germ cell neoplasia, endometrial carcinoma, follicular and papillary thyroid carcinoma, Merkel cell carcinoma, cylindroma, malignant glioma, and angiomyolipoma. CD117 may be useful for the classification of several cancers expressing c-kit, including gastrointestinal stromal tumors (GISTs), mast cell diseases, acute myeloid leukemia (AML), small cell lung carcinoma (SCLC), and Ewing's sarcoma.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

IHC	1:100 - 1:200
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*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

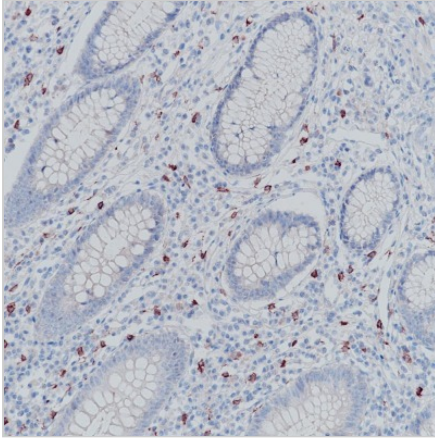
Predicted Molecular Wt	110 kDa
Purity	ProA affinity purified IgG
Subcellular location	Membrane&Cytoplasm
Swissprot ID	P10721
Immunogen	Synthetic peptide corresponding to CD117 residues within aa876-976
Storage Buffer	PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%
Recommended method	Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18° C-25° C) for 30 minutes.

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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DATA

Immunohistochemical staining of human appendiceal tissue sections was performed using CD117 Rabbit Monoclonal Antibody (ARB837). Immunohistochemical staining of human gastrointestinal stromal tumor (GIST) tissue sections was performed using CD117 Rabbit Monoclonal Antibody (ARB837).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com