CD117 (C-kit) (ABT233) IHC kit

CatalogNo: IHCM6986

Key Features

Host Species
- Mouse

Reactivity
- Human,

Applications
- IHC

Isotype
- IgG2b,Kappa

Recommended Dilution Ratios

Storage

Storage*	2°C to 8°C/1 year

Basic Information

Clonality	Monoclonal
Clone Number	ABT233

Immunogen Information

Immunogen	Synthesized peptide derived from human CD117 (C-kit) AA range: 300-400
Specificity	The antibody can specifically recognize human CD117 protein.

Target Information

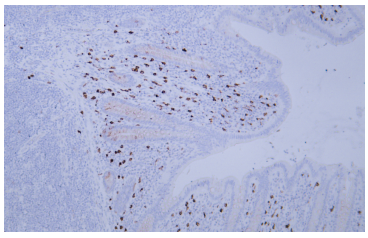
Gene name	KIT SCFR

Protein Name	CD117 (C-kit)

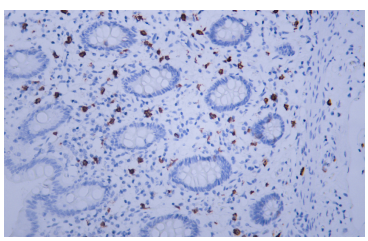
Organism	Gene ID	UniProt ID
Human	3815;	P10721;

Cellular Localization	Cytoplasmic, Membranous
Tissue specificity	[Isoform 3]: In testis, detected in spermatogonia in the basal layer and in interstitial Leydig cells but not in Sertoli cells or spermatocytes inside the seminiferous tubules (at protein level) (PubMed:20601678). Expression is maintained in ejaculated spermatozoa (at protein level) (PubMed:20601678).
Function	Catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,Disease:Defects in KIT are a cause of gastrointestinal stromal tumor (GIST) [MIM:606764].,Disease:Defects in KIT are a cause of piebaldism [MIM:172800]. Piebaldism is an autosomal dominant genetic developmental abnormality of pigmentation characterized by congenital patches of white skin and hair that lack melanocytes.,Disease:Defects in KIT have been associated with testicular tumors [MIM:273300]. It includes germ cell tumor (GCT) or testicular germ cell tumor (TGCT).,Function:This is the receptor for stem cell factor (mast cell growth factor). It has a tyrosine-protein kinase activity. Binding of the ligands leads to the autophosphorylation of KIT and its association with substrates such as phosphatidylinositol 3-kinase (Pi3K).,online information:CD117 entry,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 5 Ig-like C2-type (immunoglobulin-like) domains.,subunit:Interacts with APS. Interacts with MPDZ (via the tenth PDZ domain). Interacts with PTPRU.,

Validation Data



Human appendix tissue was stained with anti-CD117(ABT233) antibody.



Human appendix tissue was stained with anti-CD117(ABT233) antibody.

Contact information

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Please scan the QR code to access additional product information:
CD117 (C-kit) (ABT233) IHC kit