# Rabbit Anti－c－Kit／CD117 antibody 

SL20717R

| Product Name： | c－Kit／CD117 |
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| Chinese Name： | Stem cells生长因子受体／细胞表面分化抗原抗体 |
| Alias： | C Kit；c－Kit；CD 117；CD17；CD117 antigen；KIT；KIT＿HUMAN；Mast／stem cell <br> growth factor receptor；Mast／stem cell growth factor receptor Kit；p145 c－kit；PBT； <br> Piebald trait protein；Proto oncogene c Kit；Proto oncogene tyrosine protein kinase Kit； <br> Proto－oncogene c－Kit；SCF Receptor；SCRR；soluble KIT variant 1；Stem cell factor <br> receptor；tyrosine protein kinase Kit；Tyrosine－protein kinase Kit；v kit Hardy <br> Zuckerman 4 feline sarcoma viral oncogene homolog；v kit Hardy Zuckerman 4 feline <br> sarcoma viral oncogene like protein；v－kit Hardy－Zuckerman 4 feline sarcoma viral <br> oncogene homolog． |
| Rabbit |  |$|$| Polyclonal |
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## Post-translational modifications:

Ubiquitinated by SOCS6. KIT is rapidly ubiquitinated after autophosphorylation induced by KITLG/SCF binding, leading to internalization and degradation.
Autophosphorylated on tyrosine residues. KITLG/SCF binding enhances autophosphorylation. Isoform 1 shows low levels of tyrosine phosphorylation in the absence of added KITLG/SCF (in vitro). Kinase activity is down-regulated by phosphorylation on serine residues by protein kinase C family members.
Phosphorylation at Tyr-568 is required for interaction with PTPN11/SHP-2, CRK (isoform Crk-II) and members of the SRC tyrosine-protein kinase family. Phosphorylation at Tyr-570 is required for interaction with PTPN6/SHP-1. Phosphorylation at Tyr-703, Tyr-823 and Tyr-936 is important for interaction with GRB2. Phosphorylation at Tyr-721 is important for interaction with PIK3R1. Phosphorylation at Tyr-823 and Tyr-936 is important for interaction with GRB7.

## DISEASE:

Defects in KIT are a cause of piebald trait (PBT) [MIM:172800]. PBT is an autosomal dominant genetic developmental abnormality of pigmentation characterized by congenital patches of white skin and hair that lack melanocytes.
Defects in KIT are a cause of gastrointestinal stromal tumor (GIST) [MIM:606764]. Defects in KIT have been associated with testicular germ cell tumor (TGCT) [MIM:273300]. A common solid malignancy in males. Germ cell tumors of the testis constitute $95 \%$ of all testicular neoplasms.

## Similarity:

Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.
Contains 5 Ig-like C2-type (immunoglobulin-like) domains.
Contains 1 protein kinase domain.
SWISS:
P10721

Gene ID:
3815

## Database links:

Entrez Gene: 3815Human
Entrez Gene: 16590Mouse
Entrez Gene: 64030Rat
Omim: 164920Human

|  | SwissProt：P10721Human |
| :---: | :---: |
|  | SwissProt：P05532Mouse |
|  | Unigene：479754Human |
|  | Unigene：247073Mouse |
|  | Unigene：54004Rat |
|  | Important Note： <br> This product as supplied is intended for research use only，not for use in human， therapeutic or diagnostic applications． <br> 主要用于Tumour方面的研究：C－kit是原癌基因的蛋白产物，为III型Transmembrane protein酪氨酸激酶生长因子受体蛋白。80－ $100 \%$ 胃间质肉瘤（GIST）CD117＋，可与CD34联合应用。 <br> CD117还可以用于鉴别淋巴瘤中肥大细胞发生的Tumour，和作为部分宰丸生殖细胞瘤的标记物。 <br> 近年研究，CD117作为胃间质肉瘤（GIST）免疫组化检查特异性标记物， <br> 可用于临床指导GIST个性化的靶点药物治疗。 |
| Picture： |  |
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|  | Paraformaldehyde－fixed，paraffin embedded（Rat brain）；Antigen retrieval by boiling <br> in sodium citrate buffer（ pH 6.0 ）for 15 min ；Block endogenous peroxidase by $3 \%$ |



