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Datasheet for ABIN3042665

anti-KIT Ligand antibody (N-Term)

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Overview

| | |
|----------------------|--|
| Quantity: | 100 µg |
| Target: | KIT Ligand (KITLG) |
| Binding Specificity: | AA 26-44, N-Term |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This KIT Ligand antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

Product Details

| | |
|-----------------------------|--|
| Purpose: | Rabbit IgG polyclonal antibody for Kit ligand(KITLG) detection. Tested with WB, IHC-P in Human. |
| Immunogen: | A synthetic peptide corresponding to a sequence at the N-terminus of human SCF(26-44aa DEGICRNRVTNNVKDVTCLV). |
| Sequence: | DEGICRNRVT NNVKDVTKLV |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross reactivity with other proteins. |
| Characteristics: | Rabbit IgG polyclonal antibody for Kit ligand(KITLG) detection. Tested with WB, IHC-P in Human. Gene Name: KIT ligand Protein Name: Kit ligand |

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: KIT Ligand (KITLG)

Alternative Name: KITLG ([KITLG Products](#))

Background: Stem Cell Factor(also known as SCF, kit-ligand, KL, or steel factor) is a cytokine that binds to the c-Kit receptor(CD117). SCF can exist both as a transmembrane protein and a soluble protein. SCF is localized to the long arm of human chromosome 12, between 12q14.3 and 12qter. SCF plays a role in the regulation of HSCs in the stem cell niche in the bone marrow. SCF has been shown to increase the survival of HSCs in vitro and contributes to the self renewal and maintenance of HSCs in-vivo. HSCs at all stages of development express the same levels of the receptor for SCF(c-Kit). The stromal cells that surround HSCs are a component of the stem cell niche, and they release a number of ligands, including SCF.

Synonyms: C kit ligand antibody|C-kit ligand antibody|Ckit ligand antibody|DKFZp686F2250 antibody|familial progressive hyperpigmentation 2 antibody|FPH2 antibody|KIT ligand antibody|Kitl antibody|KITLG antibody|KL 1 antibody|KL1 antibody|Mast cell growth factor antibody|MGF antibody|SCF antibody|SF antibody|SHEP7 antibody|sKITLG antibody|Soluble KIT ligand antibody|Steel factor antibody|Stem cell factor antibody|Stem cell factor precursor antibody

UniProt: [P21583](#)

Pathways: [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by

Application Details

ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Expiry Date: 12 months

Publications

Product cited in: Jia, Ma, Lv, Ma, Xu, Yang, Tian, Wang, Sun, Xu, Fu, Zhao: "Oestrogen and parathyroid hormone alleviate lumbar intervertebral disc degeneration in ovariectomized rats and enhance Wnt/β-catenin pathway activity." in: **Scientific reports**, Vol. 6, pp. 27521, (2018) ([PubMed](#)).

Jia, Jiang, Liu, Wang, Zhu, Zhu, Liu, Zhong, Xie, Huang, Jia, Li, Liu, Zuo, Cheng, Dai, Ren: "Effects of three-dimensional collagen scaffolds on the expression profiles and biological functions of glioma cells." in: **International journal of oncology**, Vol. 52, Issue 6, pp. 1787-1800, (2018) ([PubMed](#)).

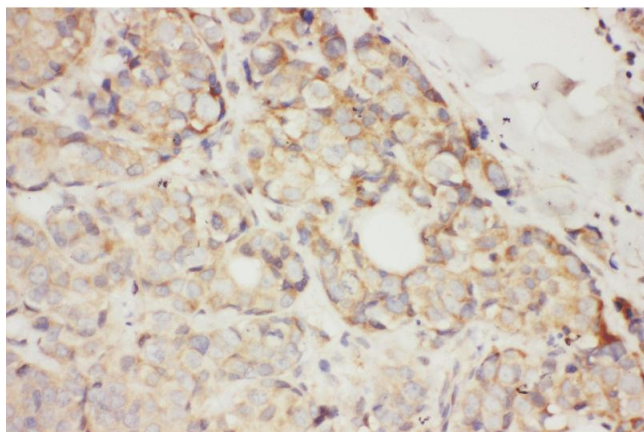
Ding, Teng, Fan, Zhao: "The Association Between Modic Changes of Lumbar Endplates and Spontaneous Absorption of Herniated Intervertebral Discs." in: **Cell biochemistry and**

biophysics, Vol. 71, Issue 3, pp. 1357-63, (2016) ([PubMed](#)).

Yan, Tian, Wang, Cheng, Xu, Song, Zhang, Zhang: "Age dependent changes in cartilage matrix, subchondral bone mass, and estradiol levels in blood serum, in naturally occurring osteoarthritis in Guinea pigs." in: **International journal of molecular sciences**, Vol. 15, Issue 8, pp. 13578-95, (2015) ([PubMed](#)).

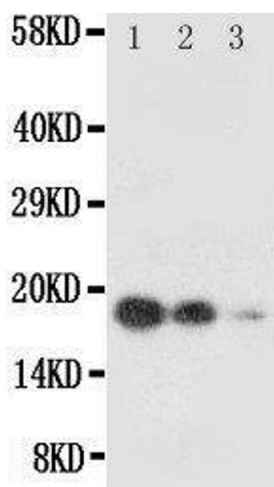
Xu, Zhang, Xu, Guo, Wang, Wu, Wang, Luo, Zhou: "Antiphotoaging effect of conditioned medium of dedifferentiated adipocytes on skin in vivo and in vitro: a mechanistic study." in: **Stem cells and development**, Vol. 24, Issue 9, pp. 1096-111, (2015) ([PubMed](#)).

Images



Immunohistochemistry

Image 1. Anti-SCF antibody, IHC(P) IHC(P): Human Mammary Cancer Tissue



Western Blotting

Image 2.