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# Datasheet for 600-401-EE1 SCF Antibody

## **Overview**

Description:	Anti-SCF (RABBIT) Antibody - 600-401-EE1
Item No.:	600-401-EE1
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

### **Product Details**

Background:	Stem cell factor (SCF) is the ligand of the c-Kit oncogene and is expressed by various structural and inflammatory cells in the airways. Binding of SCF by the c-Kit receptor leads to homodimerization of the receptor and the activation of signaling pathways such as PI-3, PLC- gamma, Jak/STAT, and MAP kinase pathways. SCF expression leads to the induction of mast cell survival and the expression and release of histamine, pro-inflammatory cytokines and chemokines. The inhibition of the SCF/c-Kit pathway leads to a decrease in histamine levels, mast cell and eosinophil infiltration, IL-4 production and airway hyperresponsiveness, suggesting this pathway may be a useful therapeutic target in inflammatory diseases such as asthma. At least two isoforms of SCF are known to exist.
Synonyms:	SCF Antibody, SF, MGF, SCF, FPH2, KL-1, Kitl, SHEP7, Kit ligand, Mast cell growth factor
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG
Format:	lgG

## **Target Details**

Gene Name:	KITLG
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-SCF antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide from near the internal region of human SCF.



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Purity/Specificity:	Anti-SCF Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with SCF from other sources has not been determined.
Relevant Links:	• UniProtKB - P21583
	• GenelD - 4254
	• NCBI - P21583

## **Application Details**

ELISA, IF, IHC, WB
Anti-SCF Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 31 kDa in Western Blots of specific cell lysates and tissues.
All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
1:10,000-1:20,000
20 μg/mL
2.5 μg/mL
1-2 μg/mL

## Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

## **Shipping & Handling**

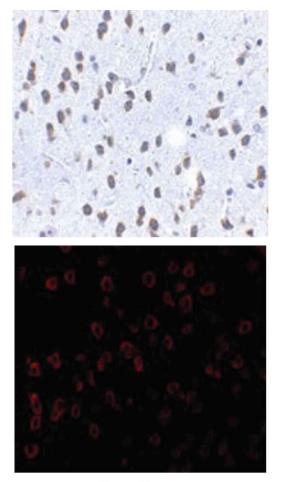
Shipping Condition:	Wet Ice
Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Expiration:	Expiration date is one (1) year from date of receipt.

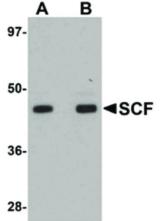
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### Images





#### Immunohistochemistry

Immunohistochemistry of SCF antibody. Tissue: mouse brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: SCF antibody at 2.5  $\mu$ g/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: SCF is a membrane protein. Staining: SCF as precipitated light blue signal with brown nuclear counterstain.

#### Immunofluorescence Microscopy

Immunofluorescence Microscopy of SCF antibody. Tissue: Human brain tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: SCF antibody at 20  $\mu$ g/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: SCF is a membrane protein. Staining: SCF as red fluorescent signal.

#### Western Blot

Western Blot of SCF antibody. Lane 1: Rat brain tissue lysate with SCF antibody at 1  $\mu$ g/mL. Lane 2: Rat brain tissue lysate with SCF antibody at 2  $\mu$ g/mL. Load: 35  $\mu$ g per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 31 kDa, 40 kDa for SCF. Other band(s): SCF splice variants and isoforms.

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### Disclaimer

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