

Product Name: KD-Validated Src Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00234**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 59.8kDa

Antigen Information

Gene Name	SRC
Alternative Names	SRC Proto-Oncogene, Non-Receptor Tyrosine Kinase; SRC1; ASV; V-Src Avian Sarcoma (Schmidt-Ruppin A-2) Viral Oncogene Homolog; Proto-Oncogene Tyrosine-Protein Kinase Src; Proto-Oncogene C-Src; EC 2.7.10.2; P60-Src; C-Src; Protooncogene SRC, Rous Sarcoma; Tyrosine Protein Kinase SRC-1; Tyrosine Kinase Pp60c-Src; Pp60c-Src; EC 2.7.10; C-SRC; THC6
Gene ID	6714.0
SwissProt ID	P12931
Immunogen	A synthesized peptide derived from human SRC

Background

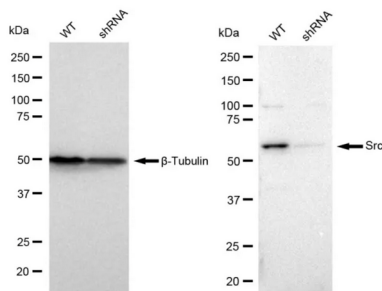
This gene is highly similar to the v-src gene of Rous sarcoma virus. This proto-oncogene may play a role in the regulation of

embryonic development and cell growth. The protein encoded by this gene is a tyrosine-protein kinase whose activity can be inhibited by phosphorylation by c-SRC kinase. Mutations in this gene could be involved in the malignant progression of colon cancer. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

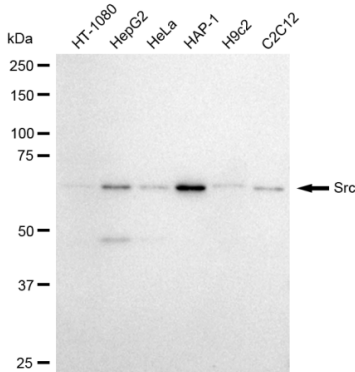
Research Area

Signal Transduction, Epigenetics and Nuclear Signaling, Cancer, Neuroscience

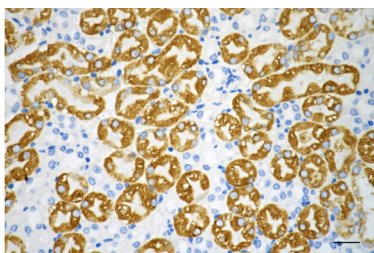
Image Data



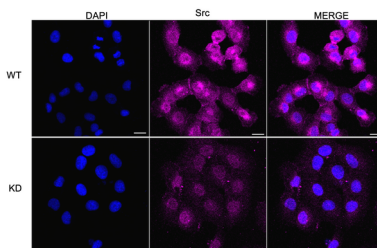
Western blotting analysis using Src antibody (KVA00234). Src expression in wild type (WT) and Src shRNA knockdown (KD) HT-1080 cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Src antibody (KVA00234, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



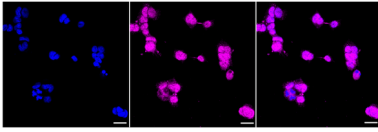
Western blotting analysis using Src antibody (KVA00234). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Src antibody (KVA00234, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



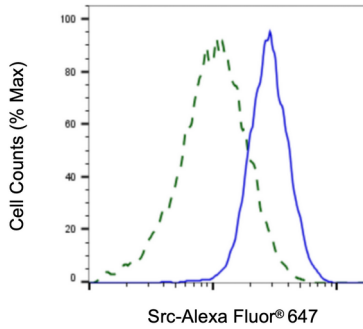
Immunohistochemistry was performed on paraffin-embedded mouse kidney using SRC antibody (KVA00234, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



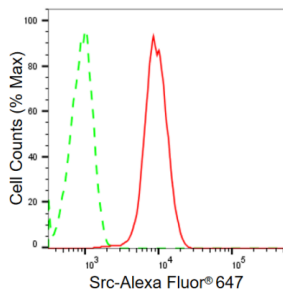
Immunocytochemical staining of HT-1080 cells using src antibody (KVA00234, 1:1,000), Top panel: wild-type (WT); Bottom panel: Src shRNA knockdown (KD). Nuclei were stained blue with DAPI; Src was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HAP-1 cells with Src antibody (KVA00234, 1:1,000). Nuclei were stained blue with DAPI; Src was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 μ m.



Validation of src knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HT-1080 cells were stained with src antibody (KVA00234, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Src expression in HAP-1 cells using Src antibody (KVA00234, 1:2,000). Green, isotype control; red, Src.