

Rabbit Sam68/KHDRBS1 Polyclonal Antibody | anti-Sam68/KHDRBS1 antibody

Anti-Sam68/KHDRBS1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19757	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

Sam68/KHDRBS1; Polyclonal Antibody; Anti-Sam68/KHDRBS1 Antibody Picoband; Interferon gamma receptor 1; IFN-gamma receptor 1; IFN-gamma-R1; CDw119; CD119; IFNGR1; anti-Sam68/KHDRBS1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Liver and small intestine. Also found in ovary, testis and kidney.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-Sam68/KHDRBS1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.1-0.25ug/ml, Human, Mouse, Rat IHC(Paraffin-embedded Section): 2-5ug/ml, Human, Mouse, Rat ICC/IF: 5ug/ml, Human IF: 5ug/ml, Human, Mouse, Rat FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human, Mouse ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human Sam68/KHDRBS1 recombinant protein (Position: M21-E239).
Subcellular Localization	Cell membrane, Single-pass type I membrane protein
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Associates with IFNGR2 to form a receptor for the cytokine interferon gamma (IFNG)(PubMed:7615558, PubMed:2971451, PubMed:7617032, PubMed:10986460). Ligand binding stimulates activation of the JAK/STAT signaling pathway (PubMed:7673114).
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM (Flow Cytometry)

Figure 15. Flow Cytometry analysis of Raji cells using anti-Sam68/KHDRBS1 antibody (AAA19757). Overlay histogram showing Raji cells stained with AAA19757 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Sam68/KHDRBS1 Antibody (AAA19757, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM (Flow Cytometry)

Figure 14. Flow Cytometry analysis of HEPA1-6 cells using anti-Sam68/KHDRBS1 antibody (AAA19757). Overlay histogram showing HEPA1-6 cells stained with AAA19757 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Sam68/KHDRBS1 Antibody (AAA19757, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



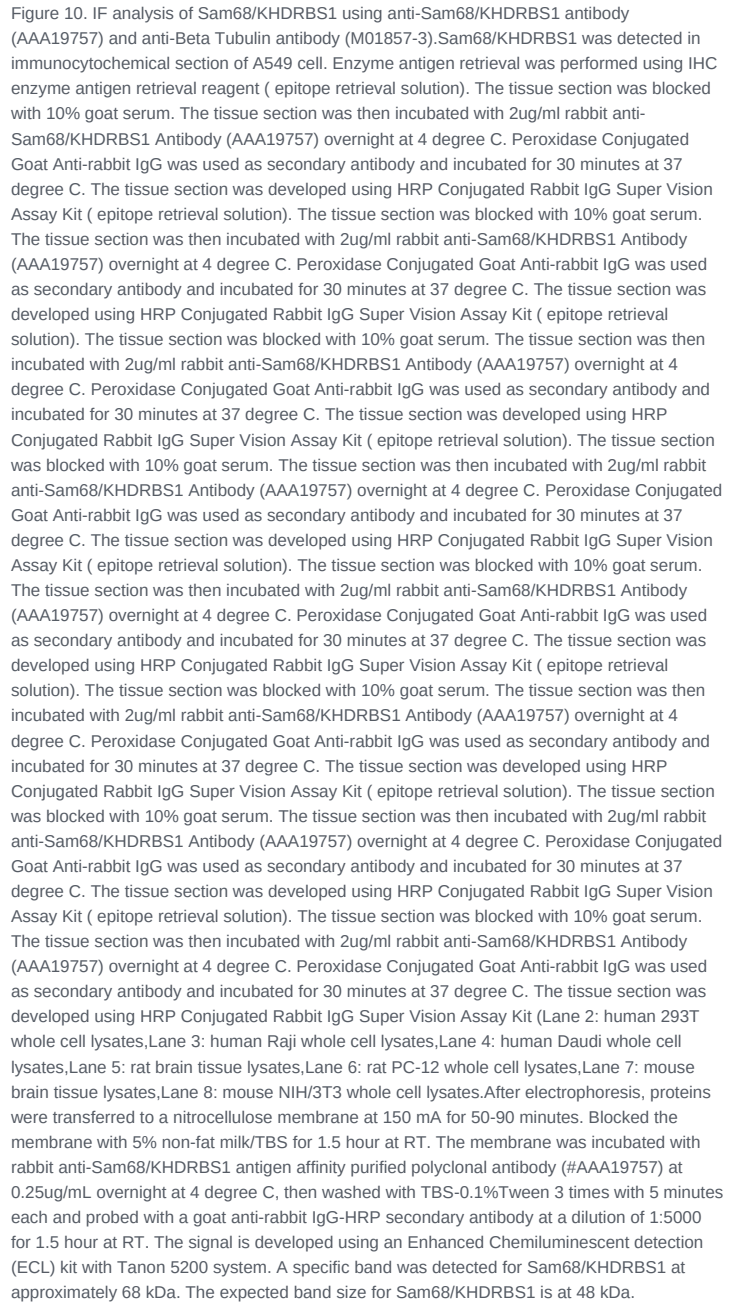
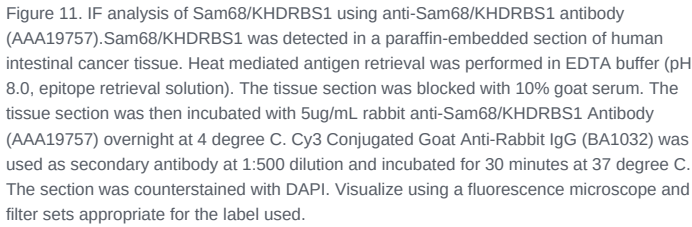
IF (Immunofluorescence)

Figure 13. IF analysis of Sam68/KHDRBS1 using anti-Sam68/KHDRBS1 antibody (AAA19757). Sam68/KHDRBS1 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-Sam68/KHDRBS1 Antibody (AAA19757) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF (Immunofluorescence)

Figure 12. IF analysis of Sam68/KHDRBS1 using anti-Sam68/KHDRBS1 antibody (AAA19757). Sam68/KHDRBS1 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-Sam68/KHDRBS1 Antibody (AAA19757) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Primary Antibodies; Antiviral Signaling; Cytokines; Hematopoietic Progenitors; Host-Virus Interaction; Immune System Diseases; Immunology; Innate Immunity; Interferons; Interspecies Interaction; Lymphoid; Macrophage/Inflammation; Microbiology; Myeloid; St

References	1. Barlat, I., Maurier, F., Duchesne, M., Guitard, E., Tocque, B., Schweighoffer, F. A role for Sam68 in cell cycle progression antagonized by a spliced variant within the KH domain. J. Biol. Chem. 272: 3129-3132, 1997.2. Bianchi, E., Barbagallo, F., Valeri, C., Geremia, R., Salustri, A., De Felici, M., Sette, C. Ablation of the Sam68 gene impairs female fertility and gonadotropin-dependent follicle development. Hum. Molec. Genet. 19: 4886-4894, 2010.3. Carlosama, C., Patino, L. C., Beau, I., Morel, A., Delemer, B., Young, J., Binart, N., Laissue, P. A novel mutation in KHDRBS1 in a patient affected by primary ovarian insufficiency. (Letter) Clin. Endocr. 89: 245-246, 2018.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	62511098
NCBI GeneID	10657
UniProt Accession #	Q07666; Q6PJX7; Q8NB97; Q99760; D3DPP3
Molecular Weight	443
NCBI Official Full Name	KH domain-containing, RNA-binding, signal transduction-associated protein 1
NCBI Official Synonym Full Names	KH domain containing, RNA binding, signal transduction associated 1
NCBI Official Symbol	KHDRBS1
NCBI Official Synonym Symbols	p62; p68; Sam68
NCBI Protein Information	KH domain-containing, RNA-binding, signal transduction-associated protein 1; KHDRBS1; src-associated in mitosis 68 kDa protein; p21 Ras GTPase-activating protein-associated p62; GAP-associated tyrosine phosphoprotein p62 (Sam68)
UniProt Protein Name	KH domain-containing, RNA-binding, signal transduction-associated protein 1
UniProt Gene Name	KHDRBS1
UniProt Synonym Gene Names	Sam68
UniProt Entry Name	KHDR1_HUMAN

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