

Rabbit anti-Human GPCR RDC1/CXCR-7/ACKR3 Polyclonal Antibody | anti-ACKR3 antibody

Anti-GPCR RDC1/CXCR-7/ACKR3 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19465	Rabbit	Human	Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

GPCR RDC1/CXCR-7/ACKR3; Polyclonal Antibody; Anti-GPCR RDC1/CXCR-7/ACKR3 Antibody Picoband; anti-ACKR3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
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 .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-ACKR3 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	WB: 0.25-0.5 ug/ml, Human IHC-P: 2-5 ug/ml, Human FC/FACS: 1-3 ug/1x10 ⁶ cells, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P).
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence of human GPCR RDC1/CXCR-7/ACKR3 (RNYRYELMKAFIFKYSAKTGLTKLIDASRVSE).
Preparation and Storage	Store 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 7. Flow Cytometry analysis of SiHa cells using anti-GPCR RDC1/CXCR-7/ACKR3 antibody (AAA19465).Overlay histogram showing SiHa cells stained with AAA19465 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GPCR RDC1/CXCR-7/ACKR3 Antibody (AAA19465, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 6. IHC analysis of GPCR RDC1/CXCR-7/ACKR3 using anti-GPCR RDC1/CXCR-7/ACKR3 antibody (AAA19465).GPCR RDC1/CXCR-7/ACKR3 was detected in a paraffin-embedded section of human tonsil 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 2 ug/ml rabbit anti-GPCR RDC1/CXCR-7/ACKR3 Antibody (AAA19465) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 5. IHC analysis of GPCR RDC1/CXCR-7/ACKR3 using anti-GPCR RDC1/CXCR-7/ACKR3 antibody (AAA19465).GPCR RDC1/CXCR-7/ACKR3 was detected in a paraffin-embedded section of human urothelial carcinoma 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 2 ug/ml rabbit anti-GPCR RDC1/CXCR-7/ACKR3 Antibody (AAA19465) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of GPCR RDC1/CXCR-7/ACKR3 using anti-GPCR RDC1/CXCR-7/ACKR3 antibody (AAA19465).GPCR RDC1/CXCR-7/ACKR3 was detected in a paraffin-embedded section of human endometrial cancer 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 2 ug/ml rabbit anti-GPCR RDC1/CXCR-7/ACKR3 Antibody (AAA19465) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of GPCR RDC1/CXCR-7/ACKR3 using anti-GPCR RDC1/CXCR-7/ACKR3 antibody (AAA19465).GPCR RDC1/CXCR-7/ACKR3 was detected in a paraffin-embedded section of human colon adenocarcinoma 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 2 ug/ml rabbit anti-GPCR RDC1/CXCR-7/ACKR3 Antibody (AAA19465) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of GPCR RDC1/CXCR-7/ACKR3 using anti-GPCR RDC1/CXCR-7/ACKR3 antibody (AAA19465).GPCR RDC1/CXCR-7/ACKR3 was detected in a paraffin-embedded section of human breast cancer 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 2 ug/ml rabbit anti-GPCR RDC1/CXCR-7/ACKR3 Antibody (AAA19465) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-ACKR3 antibody	Atypical chemokine receptor 3 also known as C-X-C chemokine receptor type 7 (CXCR-7) and G-protein coupled receptor 159 (GPR159) is a protein that in humans is encoded by the ACKR3 gene. This gene encodes a member of the G-protein coupled receptor family. Although this protein was earlier thought to be a receptor for vasoactive intestinal peptide (VIP), it is now considered to be an orphan receptor, in that its endogenous ligand has not been identified. The protein is also a coreceptor for human immunodeficiency viruses (HIV). Translocations involving this gene and HMGA2 on chromosome 12 have been observed in lipomas.
Product Categories/Family for anti-ACKR3 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	31083344
NCBI GeneID	57007

NCBI Accession #	NP_064707.1
NCBI GenBank Nucleotide #	NM_020311.2
UniProt Accession #	P25106 ; Q53RV4 ; Q8NE10 ; Q92938 ; Q92986 ; A8K6J4
Molecular Weight	41,493 Da
NCBI Official Full Name	C-X-C chemokine receptor type 7
NCBI Official Synonym Full Names	chemokine (C-X-C motif) receptor 7
NCBI Official Symbol	CXCR7
NCBI Official Synonym Symbols	RDC1; RDC-1; CMKOR1; CXC-R7; CXCR-7; GPR159
NCBI Protein Information	C-X-C chemokine receptor type 7; G protein-coupled receptor; chemokine orphan receptor 1; G-protein coupled receptor 159; G-protein coupled receptor RDC1 homolog
UniProt Protein Name	C-X-C chemokine receptor type 7
UniProt Gene Name	CXCR7
UniProt Synonym Gene Names	CMKOR1; GPR159; RDC1; CXC-R7; CXCR-7; RDC-1
UniProt Entry Name	CXCR7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gpcr-rdc1-cxcr-7-ackr3-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/19465>