

Rabbit ACKR3 / CXCR7 / RDC1 Polyclonal Antibody | anti-ACKR3 antibody

Rabbit Polyclonal (IgG) to Human ACKR3 / CXCR7

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50840	Rabbit	Human, Monkey, Mouse, Rat, Bat, Bovine, Dog, Hamster, Horse, Pig, Rabbit Predicted Reactivity: Xenopus	Flow Cytometry, Functional Assay, Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

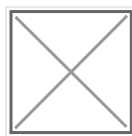
ACKR3 / CXCR7 / RDC1; Polyclonal Antibody; Rabbit Polyclonal (IgG) to Human ACKR3 / CXCR7; Anti-ACKR3 / CXCR7 / RDC1 Antibody (aa100-150) IHC-plus; ACKR3; Chemokine orphan receptor 1; CMKOR1; CXCR7; CXCR7; GPRN1; RDC1; RDC-1; CXCR-7; G-protein coupled receptor 159; GPR159; Human ACKR3; anti-ACKR3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey, Mouse, Rat, Bat, Bovine, Dog, Hamster, Horse, Pig, Rabbit Predicted Reactivity: Xenopus
Clonality	Polyclonal
Isotype	IgG
Specificity	A portion of amino acids 100-150 of human RDC1
Purity/Purification	Protein G Purified
Form/Format	Tris-Glycine, 0.05% Sodium Azide.
Concentration	1 mg/ml (varies by lot)
Sequence Length	362
Applicable Applications for anti-ACKR3 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), IHC (Immunohistochemistry)
Immunogen Species	Human
Immunogen Type	Synthetic peptide
Immunogen	ACKR3 / CXCR7 antibody was raised against a synthetic peptide (QHNQWPMGELTC) corresponding amino acids 106-117 of human CXCR7/RDC1 was used as the immunogen, GenBank NP_064707.1. Percent identity by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Hamster, Elephant, Panda, Bovine, Bat, Dog, Horse, Rabbit, Pig, Opossum (100%); Platypus, Xenopus (92%); Turkey (83%).
Epitope	aa100-150
Target	ACKR3/CXCR7
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

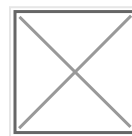
Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-drying oven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Short term 4 degree C, long term aliquot and store at -20 degree C, avoid freeze thaw cycles.

IMAGES



WB (Western Blot)

Western blot of human CXCR7/RDC1 in Jurkat cell lysate in the 1) absence and 2) presence of immunizing peptide using at 5 ug/ml.



IHC (Immunohistochemistry)

Anti-CXCR7 antibody IHC of human tonsil. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 10 ug/ml.

ADDITIONAL INFORMATION

Product Categories/Family for anti-ACKR3 antibody

Family: GPCR; **Subfamily:** Chemokine

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
NCBI Official Full Name	atypical chemokine receptor 3
NCBI Official Synonym Full Names	atypical chemokine receptor 3
NCBI Official Symbol	ACKR3
NCBI Official Synonym Symbols	RDC1; CXCR7; RDC-1; CMKOR1; CXC-R7; CXCR-7; GPR159
NCBI Protein Information	atypical chemokine receptor 3; G protein-coupled receptor; chemokine orphan receptor 1; G-protein coupled receptor 159; C-X-C chemokine receptor type 7; chemokine (C-X-C motif) receptor 7; G-protein coupled receptor RDC1 homolog
UniProt Protein Name	Atypical chemokine receptor 3
UniProt Gene Name	ACKR3
UniProt Synonym Gene Names	CMKOR1; CXCR7; GPR159; RDC1; CXC-R7; CXCR-7; RDC-1
UniProt Entry Name	ACKR3_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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