

Mouse anti-Human CD131 Monoclonal Antibody | anti-CD131 antibody

Anti-CD131 [BION-1], Mouse IgG1, Kappa

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72052	Mouse	Human	Immunohistochemistry, Western Blot, Immunoprecipitation, Functional Assay

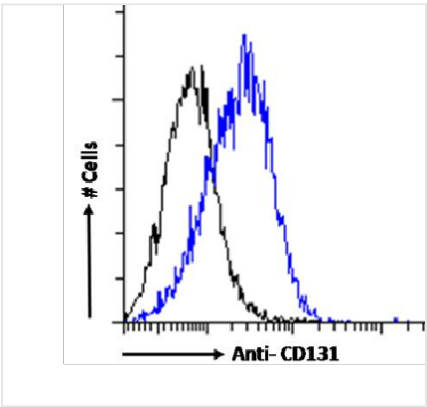
PRODUCT SYNONYMS

CD131; Monoclonal Antibody; Anti-CD131 [BION-1]; Mouse IgG1; Kappa; CSF2RB; IL3RB; IL-3R common beta subunit; IL5RB; colony stimulating factor 2 receptor; beta; low-affinity (granulocyte-macrophage); SMDP5; Common Beta-Chain; CDw131; cytokine receptor common subunit beta; beta-c; Beta Common Chain; anti-CD131 antibody

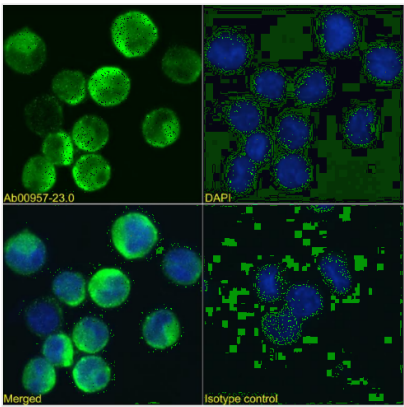
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1, Kappa
Clone Number	BION-1
Specificity	Binds to domain 4 of the common beta-chain and recognises the same binding site used by IL-5, GM-CSF and IL-3, or binds to an epitope in close proximity to it. Residues M363, R364, E366 (B-C loop) and R418 (F-G loop) in the common beta-chain are important for BION-1 binding.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CD131 antibody	IHC (Immunohistochemistry), WB (Western Blot), IP (Immunoprecipitation), FA (Functional Assay), Blocking
Antibody Type	Recombinant Antibody
Immunogen	BALB/c mice were immunized intraperitoneally with COS cells transfected DQP (Domain 4 of the common beta-chain) expression constructs. The immunizations were repeated 4 times at 2-week intervals. Four weeks after the final immunization, a mouse was boosted with COS transfectants intravenously. Three days later, splenocytes were harvested and fused with NS-1 myeloma cells. Hybridoma supernatants were screened on CHO DQP cells by flow cytometry, with untransfected CHO cells as a control. All antibodies were from single hybridoma clones as selected by a limiting dilution method. MoAbs were purified from ascites fluid or hybridoma supernatant by a protein A sepharose column.
Chimeric Use Statement	This reformatted mouse antibody was made using the variable domain sequences of the original Mouse IgG format, for improved compatibility with existing reagents, assays and techniques.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



FCM/FACS (Flow Cytometry)
Flow-cytometry using the Anti-CD131 antibody BION-1 or the rabbit IgG version of BION-1 (at a dilution of 1:100 for 1h at RT. After washing, bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



IF (Immunofluorescence)
Immunofluorescence staining of U937 cells using anti-CD131 antibody at 10ug/ml followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom, DAPI, merged channels and an isotype control. The isotype control was stained with anti-Fluorescein antibody followed by Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CD131 antibody	Describes the presence of the common beta-chain in various cell surface receptors and its role in receptor activation for inflammation. The use of BION-1 as an antagonist of IL-5, GM-CSF and IL-3 signalling through binding the common beta-chain is also outlined in the context of blocking eosinophil activation. Recombinant monoclonal antibody to CD131. Manufactured using our Recombinant Platform with variable regions (i.e. specificity) from the hybridoma BION-1.
Product Categories/Family for anti-CD131 antibody	Immunology
References	Sun et al.; Blood, Vol 94, No 6 (September 15), 1999: pp 1943-1951. OriginPubPMID: 10753826

NCBI AND UNIPROT INFORMATION

NCBI GI #	4559408
NCBI GeneID	1439
NCBI Accession #	NP_000386.1
NCBI GenBank Nucleotide #	NM_000395.2
UniProt Accession #	P32927; Q5JZ11; Q6ICE0
Molecular Weight	97,336 Da
NCBI Official Full Name	cytokine receptor common subunit beta
NCBI Official Synonym Full Names	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)
NCBI Official Symbol	CSF2RB
NCBI Official Synonym Symbols	CD131; IL3RB; IL5RB; SMDP5; CDw131
NCBI Protein Information	cytokine receptor common subunit beta; GM-CSF/IL-3/IL-5 receptor common beta-chain; GM-CSF/IL-3/IL-5 receptor common beta subunit; colony-stimulating factor-2 receptor, beta, low-affinity; interleukin 3 receptor/granulocyte-macrophage colony stimulating f
UniProt Protein Name	Cytokine receptor common subunit beta
UniProt Gene Name	CSF2RB
UniProt Synonym Gene Names	IL3RB; IL5RB

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/monoclonal/cd131-antibody-clone-bion-1-immunohistochemistry-western-blot-immunoprecipitation-functional-assay-elisa/72052>