

Datasheet for ABIN3043206

anti-GM-CSF antibody (Middle Region)



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Overview

Quantity:	100 µg
Target:	GM-CSF (CSF2)
Binding Specificity:	AA 63-81, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GM-CSF antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-GM-CSF/CSF2 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human GM-CSF.
Sequence:	MFDLQEPTCL QTRLELYKQ
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-GM-CSF/CSF2 Antibody (ABIN3043206). Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: GM-CSF (CSF2)

Alternative Name: CSF2 ([CSF2 Products](#))

Background: Synonyms: Granulocyte-macrophage colony-stimulating factor,GM-CSF,Colony-stimulating factor,CSF,Molgramostin,Sargramostim,CSF2,GMCSF,
Background: GM-CSF, Granulocyte-macrophage colony-stimulating factor, is a protein secreted by macrophages, T cells, mast cells, endothelial cells, and fibroblasts. By fluorescence in situ hybridization, the GM-CSF gene is mapped to 5q31.1. GM-CSF is a cytokine that functions as a white blood cell growth factor. GM-CSF stimulates stem cells to produce granulocytes (neutrophils, eosinophils, and basophils) and monocytes. GM-CSF is an essential regulator of neutrophil function.
Sequence Similarities: Belongs to the GM-CSF family.

Molecular Weight: 35 kDa

UniProt: [P04141](#)

Pathways: [JAK-STAT Signaling](#), [Cellular Response to Molecule of Bacterial Origin](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human
1. Le Beau, M. M., Espinosa, R., III, Neuman, W. L., Stock, W., Roulston, D., Larson, R. A., Keinanen, M., Westbrook, C. A.Cytogenetic and molecular delineation of the smallest commonly deleted region of chromosome 5 in malignant myeloid diseases.Proc. Nat. Acad. Sci. 90: 5484-5488, 1993. 2. Park, B. K., Zhang, H., Zeng, Q., Dai, J., Keller, E. T., Giordano, T., Gu, K., Shah, V., Pei, L., Zarbo, R. J., McCauley, L., Shi, S., Chen, S., Wang, C.-Y.NF-kappa-B in breast cancer cells promotes osteolytic bone metastasis by inducing osteoclastogenesis via GM-CSF.Nature Med. 13: 62-69, 2007. 3. Uchida, K., Beck, D. C., Yamamoto, T., Berclaz, P.-Y., Abe, S., Staudt, M. K., Carey, B. C., Filippi, M.-D., Wert, S. E., Denson, L. A., Puchalski, J. T., Hauck, D. M., Trapnell, B. C.GM-CSF autoantibodies and neutrophil dysfunction in pulmonary alveolar proteinosis.New Eng. J. Med. 356: 567-579, 2007.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

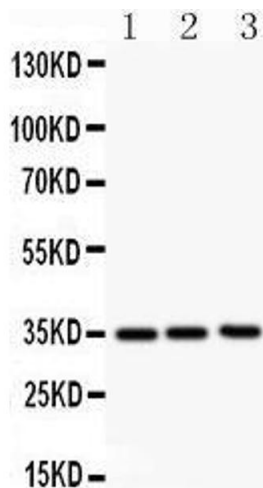
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:	Fang, Shi, Meng, Li, Peng: "The Balance between Conventional DCs and Plasmacytoid DCs Is Pivotal for Immunological Tolerance during Pregnancy in the Mouse." in: Scientific reports , Vol. 6, pp. 26984, (2018) (PubMed).
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Images



Western Blotting

Image 1. Anti- GM-CSF antibody, Western blotting All lanes: Anti GM-CSF at 0.5ug/ml Lane 1: JURKAT Whole Cell Lysate at 40ug Lane 2: HELA Whole Cell Lysate at 40ug Lane 3: Whole Cell Lysate at 40ug Predicted bind size: 16KD Observed bind size: 35KD