

Product Datasheet

Common beta Chain Antibody (BION-1) - Azide and BSA Free NBP3-09024-0.2mg

Unit Size: 0.2 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP3-09024-0.2mg

Common beta Chain Antibody (BION-1) - Azide and BSA Free

Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	BION-1
Preservative	0.02% Proclin 300
Isotype	IgG1 Kappa
Purity	Protein A purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	1439
Gene Symbol	CSF2RB
Species	Human
Specificity/Sensitivity	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.
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.
Product Application Details	
Applications	Western Blot, Functional, Immunohistochemistry, Immunoprecipitation, Block/Neutralize
Recommended Dilutions	Western Blot, Immunohistochemistry, Immunoprecipitation, Functional, Block/Neutralize
Application Notes	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. BION-1 has been shown to block eosinophil production, survival, and activation stimulated by IL-5 as well as by GM-CSF and IL-3, thereby influencing inflammation (Sun 1999). Further, BION-1 has been used in immunohistochemistry experiments in order to examine the presence of GM-CSF-receptor protein in human 8-cell embryos and blastocysts (Sjoblom 2002). In addition, a fab fragment derived from BION-1 has been used in the crystallisation of the common beta-chain to analyse the structure of the activation domain of the GM-CSF/IL-3/IL-5 receptor (Rossjohn 200).





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Products Related to NBP3-09024-0.2mg

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-52244-0.05mg	Recombinant Human Common beta Chain His Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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