

# Product Datasheet

## Eosinophil Antibody (BMK-13) NBP1-42140-1ml

Unit Size: 1 ml

Store at 4C. Do not freeze.

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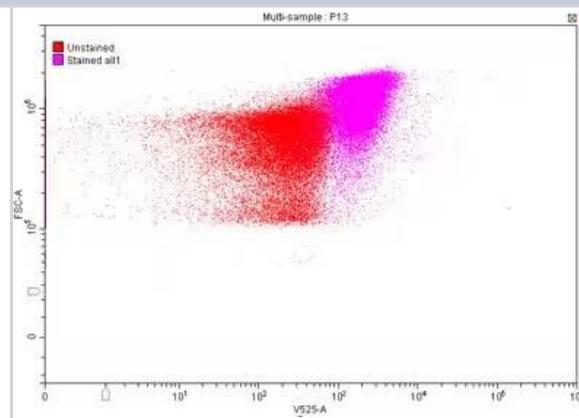
**NBP1-42140-1ml**

Eosinophil Antibody (BMK-13)

<b>Product Information</b>	
<b>Unit Size</b>	1 ml
<b>Concentration</b>	0.1 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	BMK-13
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	PBS, 0.1% BSA
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Species</b>	Human, Mouse, Canine, Monkey, Rhesus Macaque
<b>Reactivity Notes</b>	Use in Rhesus Macaque reported in scientific literature (PMID:32128254). Canine reactivity reported in scientific literature (PMID: 29920692). Monkey reactivity reported in scientific literature (PMID: 30626745). Mouse reactivity reported in scientific literature (PMID: 31643033, 31626785).
<b>Specificity/Sensitivity</b>	Cross-reacts weakly with human basophils, which also contain low level of this protein. It does not cross-react with any other human protein or cell.
<b>Immunogen</b>	The antibody reacts with the Eosinophil Major Basic Protein antigen.
<b>Product Application Details</b>	
<b>Applications</b>	ELISA, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Flow Cytometry Validated for Flow from a verified customer review., ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500
<b>Application Notes</b>	This mAb is a very useful tool for clinical and experimental allergy studies. BMK-13 is a pan-eosinophil marker in both frozen sections and paraffin embedded tissues. It stains in bronchial sections 98% of the periphere blood eosinophils. Further, the antibody is most useful for immunohistochemistry on frozen sections is the APAAP method. BMK-13 also binds to eosinophils in paraffin-embedded tissue. A 1:30 dilution in PBS is recommended. Incubation time: 1 hour at RT. Enzymatic pretreatment is necessary. This antibody is suitable for blood smears (cytospins) if fixed with methanol-acetone mixture (1:1, v/v). It is unlikely, without permeabilization, that the BMK-13 is suitable for the flow cytometry because BMK-13 stains intracellular, stored proteins.

## Images

Flow Cytometry: Mouse Monoclonal Eosinophil Antibody (BMK-13) [NBP1-42140] - LPS stimulated eosinophil. WBC was blocked (RBC lysed whole blood) with 5 % BSA for 15 min and then incubated with NBP1-42140 (1:100) for 2 h at 4 °C. The cells were washed and stained secondary antibody Alexa 430 and analyzed in FACS. Image from a verified customer review.



## Publications

Dinesh Devadoss, Kerri Surbaugh, Marko Manevski, Chatura Wickramaratne, Dale Chaput, Arianne Chung, Francisco de Leon, Hitendra S Chand, Jaspreet S Dhau Indoor-air purification by photoelectrochemical oxidation mitigates allergic airway responses to aerosolized cat dander in a murine model. *Scientific reports* 2023-07-10 [PMID: 37414804]

Roy C J, Van Slyke G et al. Passive immunization with an extended half-life monoclonal antibody protects Rhesus macaques against aerosolized ricin toxin. *NPJ Vaccines* 2020-05-03 [PMID: 32128254] (IF/IHC, Rhesus Macaque)

Hashimoto T, Kursewicz CD, Fayne RA et al. Mechanisms of itch in stasis dermatitis: Significant role of IL-31 from macrophages *J. Invest. Dermatol.* 2019-10-15 [PMID: 31626785] (Mouse)

Singh SP, Chand HS, Banerjee S et al. Acetylcholinesterase Inhibitor Pyridostigmine Bromide Attenuates Gut Pathology and Bacterial Dysbiosis in a Murine Model of Ulcerative Colitis *Dig. Dis. Sci.* 2019-10-23 [PMID: 31643033] (IF/IHC, Mouse)

Hashimoto T, Kursewicz CD, Fayne RA et al. Pathophysiological mechanisms of itch in bullous pemphigoid *J. Am. Acad. Dermatol.* 2019-07-25 [PMID: 31351883]

Roy CJ, Ehrbar DJ, Bohorova N et al. Rescue of rhesus macaques from the lethality of aerosolized ricin toxin. *JCI Insight* 2019-01-10 [PMID: 30626745] (IHC-P, Monkey)

Costa SF, Trivellato GF, Rebech GT et al. Eosinophilic inflammation in lymph nodes of dogs with visceral leishmaniasis *Parasite Immunol.* 2018-06-19 [PMID: 29920692] (ELISA, Canine)



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP1-42140-1ml**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **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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