

# Product Datasheet

## Fc epsilon RI alpha Antibody (Mar-1) - Chimeric - Azide and BSA Free

**NBP3-09005-0.2mg**

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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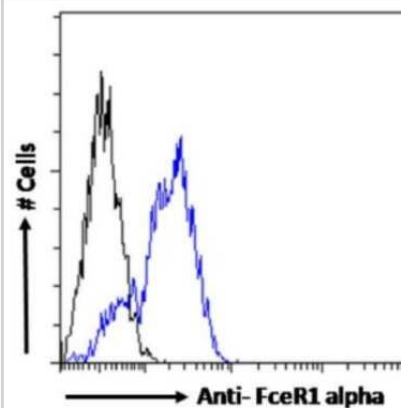
Fc epsilon RI alpha Antibody (Mar-1) - Chimeric - Azide and BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.2 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	Mar-1
<b>Preservative</b>	0.02% Proclin 300
<b>Isotype</b>	IgG Lambda
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit Fc epsilon RI alpha Antibody (Mar-1) - Chimeric - Azide and BSA Free (NBP3-09005) is a recombinant monoclonal antibody validated for use in IHC, Flow and IP. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	2205
<b>Gene Symbol</b>	FCER1A
<b>Species</b>	Mouse
<b>Specificity/Sensitivity</b>	This antibody specifically targets the non-signalling alpha chain of the FcεR1 complex.
<b>Immunogen</b>	FcεR1 alpha
<b>Product Application Details</b>	
<b>Applications</b>	Flow Cytometry, Immunohistochemistry, Immunoprecipitation
<b>Recommended Dilutions</b>	Flow Cytometry, Immunohistochemistry, Immunoprecipitation
<b>Application Notes</b>	<p>This chimeric rabbit antibody was made using the variable domain sequences of the original Armenian Hamster IgG format, for improved compatibility with existing reagents, assays and techniques.</p> <p>This antibody has been used in flow cytometric analysis of FcεR1 alpha cell surface expression by basophils (Min et al, 2004; Chen et al, 2009), and immunohistochemical analysis of epidermal sheets (Holzmann et al, 2004). It has also been used in immunoprecipitation analysis of cell lysates from lung cDCs and MC/9 mast cells (Grayson et al, 2007). In vitro incubation of basophils with this antibody blocks subsequent MAR-1 staining, but does not activate basophil IL-4 production (Sokol et al, 2008). Intravenous treatment of mice with this antibody results in basophil depletion in peripheral blood, spleen, bone marrow and liver, but not skin or intraperitoneal mast cell depletion (Sokol et al, 2008). Following treatment with this antibody, basophil-depleted mice display impaired Th2 differentiation upon papain immunisation (Sokol et al, 2008). However, MAR-1 treated mice respond normally to high-dose intravenous Ig in both the K/BxN serum transfer arthritis and collagen-induced arthritis models, despite basophil depletion (Campbell et al, 2014).</p>



## Images

Flow Cytometry: Fc epsilon RI alpha Antibody (Mar-1) - Chimeric [NBP3-09005] - Mouse splenocytes were stained with anti-Fluorescein IgG antibody (4-4-20; isotype control, black line) or the rabbit IgG-chimeric version of Mar-1 (NBP3-09005, blue line) at a dilution of 1:100 for 1h at RT. After washing, bound antibody was detected using a goat anti-rabbit IgG AlexaFluor(R) 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.





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### **Products Related to NBP3-09005-0.2mg**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
210-TA-005	TNF-alpha [Unconjugated]
11536-FC-050	Fc epsilon RI alpha [Unconjugated]

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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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