

Product datasheet

Anti-Neutrophil antibody [7/4] (FITC) ab53453

★★★★☆ 5 Abreviews 15 References 3 Images

Overview

Product name	Anti-Neutrophil antibody [7/4] (FITC)
Description	Rat monoclonal [7/4] to Neutrophil (FITC)
Host species	Rat
Conjugation	FITC. Ex: 493nm, Em: 528nm
Specificity	Rat anti mouse Ly-6B.2, clone 7/4 recognizes the Ly-6B.2 antigen in 129J; AKR; C57BL/6; C57BL/10; C58; DBA/2; NZB; NZW; SJL; MFI; Swiss (PO) strains. A2G; A/Sn; ASW; BALB/c; C3H/HEH: CBA.T6T6 are negative or demonstrate very weak reactivity.
Tested applications	Suitable for: IHC-FoFr, IHC-Fr, Flow Cyt, IHC-P
Species reactivity	Reacts with: Mouse
Immunogen	Tissue/ cell preparation: cultured bone marrow cells.
Epitope	Recognizes the Ly-6B.2 antigen.
Positive control	Flow Cyt.: New Zealand Black mouse peripheral blood granulocytes.
General notes	<p>ab53453 recognizes the Ly-6B.2 antigen. Ly-6B.2 is a ~25-30 kDa GPI-anchored, heavily glycosylated protein expressed on neutrophils, inflammatory monocytes and some activated macrophages. High levels of expression are seen in bone marrow, spleen, lung and lymph nodes. N-glycanase treatment of thioglycollate elicited peritoneal neutrophil lysates lowers the apparent molecular weight of Ly-6B.2 to ~15 kDa.</p> <p>ab53453 has been successfully used for the immunomagnetic depletion of neutrophils during the enrichment of primitive hematopoietic cells from bone marrow and the depletion of myeloid cells <i>in vivo</i>.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 1% BSA, PBS
Purity	Protein G purified
Purification notes	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.
Primary antibody notes	ab53453 recognises a neutrophil allotypic marker, a polymorphic 40kD antigen expressed by

polymorphonuclear cells, but absent on resident tissue macrophages.

Clonality	Monoclonal
Clone number	7/4
Myeloma	Y3/Ag1.2.3
Isotype	IgG2a

Applications

Our [Abpromise guarantee](#) covers the use of **ab53453** in the following tested applications.

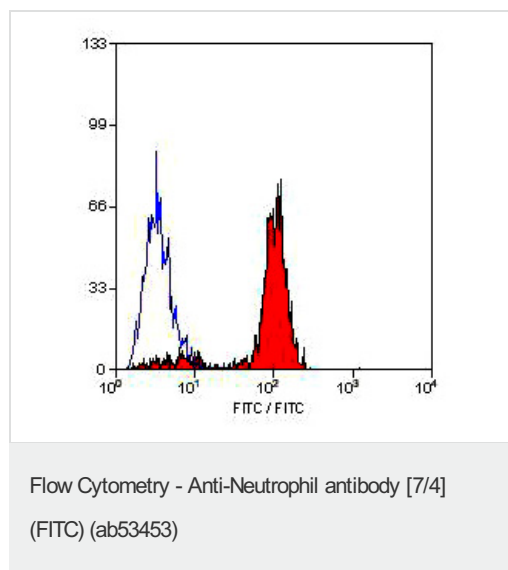
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-FoFr		Use at an assay dependent concentration. PubMed: 20038794
IHC-Fr	★★★★★	Use at an assay dependent concentration.
Flow Cyt	★★★☆☆	Use at an assay dependent concentration. Use 10µl of the working dilution to label 10 ⁶ cells in 100µl. ab18446 - Rat monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
IHC-P		Use at an assay dependent concentration.

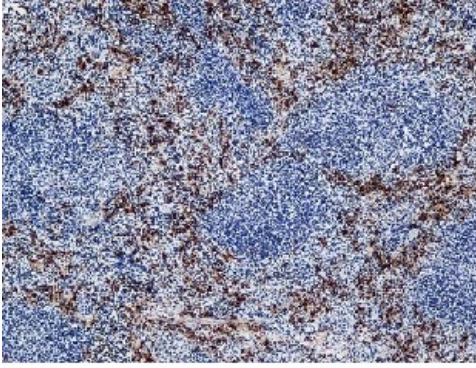
Target

Cellular localization Cell membrane; Lipid-anchor, GPI-anchor

Images

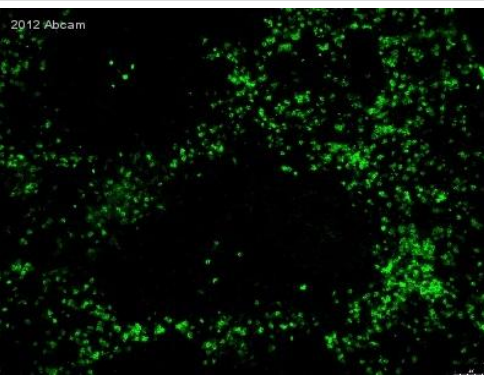


Staining of New Zealand Black mouse peripheral blood granulocytes with Rat anti mouse neutrophil:FITC (ab53453).



Immunohistochemical analysis of mouse spleen cryosection tissue stained for Neutrophil using ab53453.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Neutrophil antibody [7/4] (FITC) (ab53453)



Immunohistochemical analysis of acetone-fixed frozen mouse spleen, labelling Neutrophil with ab53453 at a dilution of 1/100 incubated for 1 hour at 25°C in 5% goat serum in TBS. The secondary used (to amplify the signal) was a Goat anti-rat polyclonal Alexa Fluor® 488 conjugate at a 1/400 dilution.

Immunohistochemistry (Frozen sections) - Anti-Neutrophil antibody [7/4] (FITC) (ab53453)
Image is courtesy of an anonymous Abreview.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors