Datasheet for ABIN2192097
anti-Basophils antibody

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Overview

Quantity:	100 µg
Target:	Basophils
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Basophils antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Clone:	2D7
Sterility:	0.2 µm filtered

Target Details

Target:	Basophils
Background:	The monoclonal antibody 2D7 is a specific marker for basophils detecting a basophil-specific protein of 7.2-7.5 kDa localized in secretory granules. Activated basophils have been shown to have a reduced staining with the 2D7 antibody consistent with localization of the antigen to secretory granules. Basophils are multifunctional haematopoietic cells that secrete a wide variety of proinflammatory agents upon activation such as histamine and cytokines. Moreover, basophils can induce IgE production by B cells. Under normal conditions basophils are primarily produced in the bone marrow, whereas mature basophils reside in the circulation and can enter

Target Details

	tissues at sites of inflammation. Both basophils and mast cells have been implicated in the pathogenesis of allergic inflammation due to the abundant expression of high affinity receptors for IgE. The 2D7 antibody can be used as a sensitive and precise marker for human basophils and does not react with lymphocytes, monocytes, eosinophils, neutrophils or mast cells in immunohistochemistry. Moreover, the antibody is suitable for western blot analysis of the 2D7 antigen. Immunogen Lysate of purified basophils

Application Details

Application Notes:	For immunohistochemistry, flow cytometry and Western blotting, dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50. For functional studies, in vitro dilutions have to be optimized in user's experimental setting. Positive Chronic myeloid leukaemia (basophilia) control Negative CD203c negative cells (basophil depleted cell fractions) control
Restrictions:	For Research Use only

Handling

Buffer:	PBS, containing 0.1 % bovine serum albumin and 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Product should be stored at 4 °C. Under recommended storage conditions, product is stable for at least one year. The exact expiry date is indicated on the label.

Publications

Product cited in:	Plager, Weiss, Kephart, Mocharla, Matsumoto, Checkel, Schwartz, Gleich, Leiferman: " Identification of basophils by a mAb directed against pro-major basic protein 1." in: **The Journal of allergy and clinical immunology**, Vol. 117, Issue 3, pp. 626-34, (2006) (PubMed). Irani, Huang, Xia, Kepley, Nafie, Fouda, Craig, Zweiman, Schwartz: "Immunohistochemical detection of human basophils in late-phase skin reactions." in: **The Journal of allergy and clinical immunology**, Vol. 101, Issue 3, pp. 354-62, (1998) (PubMed).

Kepley, Craig, Schwartz: "Identification and partial characterization of a unique marker for human basophils." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 154, Issue 12, pp. 6548-55, (1995) (PubMed).