



Datasheet for ABIN2192097 anti-Basophils antibody



[Go to Product page](#)

3 Publications

Overview

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

Product Details

Clone:	2D7
Sterility:	0.2 µm filtered

Target Details

Target:	Basophils
Abstract:	Basophils Products
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

Target Details

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 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: Müller, Peri, Doni, Perruchoud, Landmann, Pasqualini, Mantovani: "High circulating levels of the IL-1 type II decoy receptor in critically ill patients with sepsis: association of high decoy receptor levels with glucocorticoid administration." in: **Journal of leukocyte biology**, Vol. 72, Issue 4, pp. 643-9, (2002) ([PubMed](#)).

Penton-Rol, Orlando, Polentarutti, Bernasconi, Muzio, Introna, Mantovani et al.: "Bacterial lipopolysaccharide causes rapid shedding, followed by inhibition of mRNA expression, of the IL-1 type II receptor, with concomitant up-regulation of the type I receptor and induction of ..." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 162, Issue 5, pp. 2931-8, (1999) ([PubMed](#)).