

IO Test Conjugated Antibody CD305-PE

	Specifications
Specificity	CD305
Clone	NKTA255
Hybridoma	P3U1 x mice (strain non identified)
Immunogen	NK cells lines B12.100 and AM.25
Isotype	IgG1
Species	Mouse
Purification	Affinity Chromatography
Fluorochrome	R Phycoerythrin (PE)
Molar ratio	PE / Ig: 0.5 - 1.5
λ excitation	488 nm
Emission Peak	575 nm
Buffer	PBS pH 7.2 plus 2 mg / mL BSA and 0.1% NaN ₃

REF B68156 Liquid - 1 mL

Analyte Specific Reagent.

Analytical and performance characteristics are not established

REAGENTS

Concentration: See lot specific Certificate of Analysis at www.beckmancoulter.com.

WARNING AND PRECAUTIONS

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Specimens, samples and all material coming in contact with them should be considered potentially infectious and disposed of with proper precautions.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.
8. Any change in the physical appearance of the reagents may indicate deterioration and the reagent should not be used.

GHS HAZARD CLASSIFICATION

Not classified as hazardous

STORAGE AND HANDLING CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

CONTENTS

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

SPECIFICITY

CD305, also called LAIR1 (Leucocyte-associated Ig-like receptor 1), is a 31 kDa type 1 transmembrane molecule with a single N terminal extracellular Ig superfamily C2 domain. The extracellular domain contains one N-glycosylation site (1). CD305 is expressed on the majority of lymphocytes, NK cells, monocytes, dendritic cells and naïve B cells. It inhibits cell cytotoxicity, cell activation, proliferation and differentiation by phosphorylation of its cytoplasmic ITIM motifs (1,2,3,4). The monoclonal antibody NKTA255 has been assigned to the CD305 cluster of differentiation at the Eighth International Workshop on Human Leucocyte Differentiation Antigens held in Adelaide, Australia (2004) (3).

ADDITIONAL INFORMATION

For additional information, or if damaged product is received, call Beckman Coulter Customer Service at 800-526-7694 (USA or Canada) or contact your local Beckman Coulter Representative.

REFERENCES

1. Zola et al. Leucocyte and Stromal cell molecules: the CD markers. John Wiley & Sons, Inc. Publication, 2007. Molecule Profiles: CD305 report, page 488.
2. Poggi, A., Pella, N., Morelli, L., Spada, F., Revello, V., Sivori, S., Augugliaro, R., Lorenzo, M. and Moretta, A., p40, a novel surface molecule involved in the regulation of the non-major histocompatibility complex restricted cytolytic activity in humans. *Eur. J. Immunol.* 1995. 25: 369–376.
3. Hilary S. Warren, The Eighth Human Leucocyte Differentiation Antigen (HLDA8) Workshop: Natural killer cell section report, *Cellular Immunology* 236 (2005) 17–20.
4. Meyaard, L. The inhibitory collagen receptor LAIR-1 (CD305), *Journal of Leukocyte Biology*, 2008, 83, 799-803.



IMMUNOTECH S.A.S. a Beckman Coulter Company, 130, avenue de Lattre de Tassigny,
BP 177, 13276 Marseille cedex 9, France, 33-491 172 727