

Human B7-H6 PE-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 875001

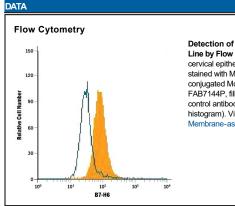
Catalog Number: FAB7144P 25 Tests, 100 Tests

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human B7-H6 in direct ELISAs.	
Source	Monoclonal Mouse IgG ₁ Clone # 875001	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Mouse myeloma cell line NS0-derived recombinant human B7-H6 Met1-Ser262 Accession # Q68D85	
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm	
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.	
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	10 μL/10 ⁶ cells	See Below



Detection of B7-H6 in HeLa Human Cell Line by Flow Cytometry. HeLa human cervical epithelial carcinoma cell line was stained with Mouse Anti-Human B7-H6 PEconjugated Monoclonal Antibody (Catalog # FAB7144P, filled histogram) or isotype control antibody (Catalog # IC002P, open histogram). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

ShippingThe product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage

Protect from light. Do not freeze.

• 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

B7-H6 is a glycosylated member of the B7 family of immune co-stimulatory proteins (1, 2). Mature human B7-H6 consists of a 238 amino acid (aa) extracellular domain (ECD) that contains one Ig-like V domain and one Ig-like C1 domain, a 21 aa transmembrane segment, and a 171 aa cytoplasmic domain that contains one ITIM, one SH2, and one SH3 motif (3). Both of the Ig-like domains carry N-linked glycosylation (4). Within the ECD, human B7-H6 shares 99%, 94%, and 87% aa sequence identity with chimpanzee, orangutan, and gibbon B7-H6, respectively, and 53% - 56% with bovine, canine, and equine B7-H6. Orthologs in mouse and rat have not been identified. The Ig-like V domain mediates 1:1 stoichiometric binding of B7-H6 to NKp30 expressed on NK cells (4, 5). It does not show binding to NKp44, NKp46, or NKG2D (3, 6). Ligation of NKp30 by B7-H6 induces NK cell activation and target cell cytolysis (3). B7-H6 is expressed on a wide range of hematopoietic, carcinoma, and melanoma tumor cells, which is consistent with the detection of NKp30 binding sites on many tumors (3, 7). The expression of NKp30 ligands on tumor cells correlates with tumor cell sensitivity to NKp30-dependent cell lysis (7).

References:

- 1. Zou, W. and L. Chen (2008) Nat. Rev. Immunol. 8:467.
- 2. Bour-Jordan, H. et al. (2011) Immunol. Rev. 241:180.
- 3. Brandt, C.S. et al. (2009) J. Exp. Med. 206:1495.
- Li, Y. et al. (2011) J. Exp. Med. 208:703.
- 5. Joyce, M.G. et al. (2011) Proc. Natl. Acad. Sci. 108:6223.
- 6. Arnon, T.I. et al. (2006) Semin. Cancer Biol. 16:348.
- 7. Byrd, A. et al. (2007) PLoS ONE 2:e1339.

Rev. 2/6/2018 Page 1 of 1

