Human VISTA/B7-H5/PD-1H PE-conjugated Antibody
Monoclonal Mouse IgG2B Clone # 730804
Catalog Number: FAB71261P
100 Tests

DESCRIPTION

Species Reactivity Human

Specificity Detects human VISTA/B7-H5/PD-1H in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse VISTA/B7-H5/PD-1H is observed.

Source Monoclonal Mouse IgG2B Clone # 730804

Purification Protein A or G purified from hybridoma culture supernatant

Immunogen Mouse myeloma cell line NS0-derived recombinant human VISTA/B7-H5/PD-1H Phe33-Ala194
Accession # Q9H7M9

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/10⁶ cells See Below

DATA

Flow Cytometry

Detection of VISTA/B7-H5/PD-1H in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) were stained with Mouse Anti-Human Integrin αM/CD11b APC-conjugated Monoclonal Antibody (Catalog # FAB16991A) and either (A) Mouse Anti-Human VISTA/B7-H5/PD-1H PE-conjugated Monoclonal Antibody (Catalog # FAB71261P) or (B) Mouse IgG2B Phycoerythrin Isotype Control (Catalog # IC0041P). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping The 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

Platelet Receptor Gi24, also known as VISTA (V-domain Ig suppressor of T cell activation), B7-H5, B7H5, Dies1 (Differentiation of ESC-1), SISP1 and C10orf54, is a 55-65 kDa member of the Ig superfamily. It is a transmembrane molecule expressed in bone, on embryonic stem cells (ESCs), and on tumor cell surfaces. On ESCs, Gi24 appears to positively interact with BMP-4, potentiating BMP signaling and the transition from an undifferentiated to a differentiated state. On tumor cells, Gi24 both promotes MT1-MMP expression and activity and serves as a substrate for MT1-MMP. This increases the potential for cell motility. Mature human Gi24 contains a 162 aa extracellular region with one V-type Ig-like domain and a 96 aa cytoplasmic domain. Human Gi24 undergoes proteolytic cleavage by MT1-MMP, generating a soluble 30 kDa extracellular fragment plus a 25-30 kDa membrane-bound fragment. Over aa 33-194, human Gi24 shares 70% and 67% aa identity with mouse and rat Gi24, respectively.