Human VISTA/B7-H5/PD-1H Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7126

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human VISTA/B7-H5/PD-1H in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human VISTA/B7-H5/PD-1H Phe33-Ala194 Accession # Q9H7M9
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

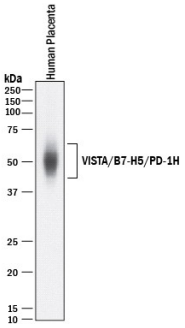
APPLICATIONS

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
Western Blot	1 µg/mL	See Below
Flow Cytometry	0.25 µg/10^6 cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
ELISA	This antibody functions as an ELISA detection antibody when paired with Mouse Anti-Human VISTA/B7-H5/PD-1H Monoclonal Antibody (Catalog # MAB71264). *This product is intended for assay development on various assay platforms requiring antibody pairs. We recommend the Human VISTA/B7-H5/PD-1H DuoSet ELISA Kit (Catalog # DY7126-05) for convenient development of a sandwich ELISA.*	

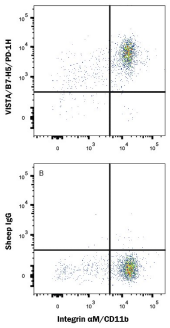
DATA

Western Blot



Detection of Human VISTA/B7-H5/PD-1H by Western Blot. Western blot shows lysates of human placenta tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human VISTA/B7-H5/PD-1H Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7126) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for VISTA/B7-H5/PD-1H at approximately 45-65 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Flow Cytometry



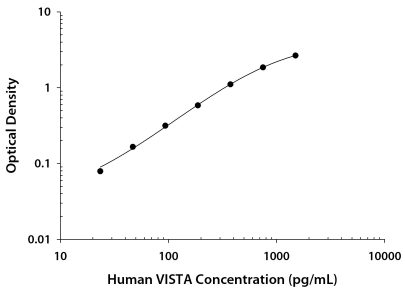
Detection of VISTA/B7-H5/PD-1H in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) were stained with Mouse Anti-Human CD11b/Integrin alpha M APC-conjugated Monoclonal Antibody (Catalog # FAB16991A) and either (A) Sheep Anti-Human VISTA/B7-H5/PD-1H Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7126) or (B) Normal Sheep IgG Control (Catalog # 5-001-A) followed by Phycoerythrin-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # F0126). View our protocol for Staining Membrane-associated Proteins.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449

Human VISTA/B7-H5/PD-1H Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7126

ELISA



Human VISTA/B7-H5/PD-1H ELISA Standard Curve. Recombinant Human VISTA/B7-H5/PD-1H protein was serially diluted 2-fold and captured by Mouse Anti-Human VISTA/B7-H5/PD-1H Monoclonal Antibody (Catalog # MAB71264) coated on a Clear Polystyrene Microplate (Catalog # DY990). Sheep Anti-Human VISTA/B7-H5/PD-1H Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7126) was biotinylated and incubated with the protein captured on the plate. Detection of the standard curve was achieved by incubating Streptavidin-HRP (Catalog # DY998) followed by Substrate Solution (Catalog # DY999) and stopping the enzymatic reaction with Stop Solution (Catalog # DY994).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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, VISTA appears to positively interact with BMP-4, potentiating BMP signaling and the transition from an undifferentiated to a differentiated state. On tumor cells, VISTA both promotes MT1-MMP expression and activity and serves as a substrate for MT1-MMP. This increases the potential for cell motility. Mature human VISTA contains a 162 aa extracellular region with one V-type Ig-like domain and a 96 aa cytoplasmic domain. Human VISTA 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 VISTA shares 70% and 67% aa identity with mouse and rat Gi24, respectively.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449