Human VISTA/B7-H5/PD-1H Antibody
Monoclonal Mouse IgG<sub>2B</sub> Clone # 730804
Catalog Number: MAB71261

**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 IgG<sub>2B</sub> Clone # 730804

Purification: Protein A or G purified from hybridoma culture supernatant

Immunogen: Mouse myeloma cell line NSO-derived recombinant human VISTA/B7-H5/PD-1H Phe33-Ala194

Accession #: Q0H7M9

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**

Flow Cytometry

<table>
<thead>
<tr>
<th>Recommended Concentration</th>
<th>Sample</th>
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</thead>
<tbody>
<tr>
<td>0.25 µg/10&lt;sup&gt;5&lt;/sup&gt; cells</td>
<td>See Below</td>
</tr>
</tbody>
</table>

Immunocytochemistry

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Sample</th>
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<tbody>
<tr>
<td>8-25 µg/mL</td>
<td>See Below</td>
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CyTOF-ready

Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.

**PREPARATION AND STORAGE**

Reconstitution: Sterile PBS to a final concentration of 0.5 mg/mL.

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, 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.