**Product datasheet**

**Anti-CD276 antibody [6A1] ab105922**

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**Overview**

- **Product name**: Anti-CD276 antibody [6A1]
- **Description**: Mouse monoclonal [6A1] to CD276
- **Host species**: Mouse
- **Tested applications**: Suitable for: WB, IHC-P, ELISA, Flow Cyt
- **Species reactivity**: Reacts with: Human
- **Immunogen**: Recombinant fragment corresponding to Human CD276 aa 30-130.
- **Positive control**: WB: HEK293 cell lysate IHC-P: Human cervical cancer and ovarian cancer tissues FC: PC-3 cells
- **General notes**: This product was changed from ascites to supernatant. Lot no’s high than GR209552-21 are from Tissue Culture Supernatant

**Properties**

- **Form**: Liquid
- **Storage instructions**: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.
- **Storage buffer**: Preservative: 0.05% Sodium azide
- **Purity**: Protein G purified
- **Purification notes**: Purified from tissue culture supernatant.
- **Clonality**: Monoclonal
- **Clone number**: 6A1
- **Isotype**: IgG1

**Applications**

Our Abpromise guarantee covers the use of ab105922 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</table>
Function
May participate in the regulation of T-cell-mediated immune response. May play a protective role in tumor cells by inhibiting natural-killer mediated cell lysis as well as a role of marker for detection of neuroblastoma cells. May be involved in the development of acute and chronic transplant rejection and in the regulation of lymphocytic activity at mucosal surfaces. Could also play a key role in providing the placenta and fetus with a suitable immunological environment throughout pregnancy. Both isoform 1 and isoform 2 appear to be redundant in their ability to modulate CD4 T-cell responses. Isoform 2 is shown to enhance the induction of cytotoxic T-cells and selectively stimulates interferon gamma production in the presence of T-cell receptor signaling.

Tissue specificity
Ubiquitous but not detectable in peripheral blood lymphocytes or granulocytes. Weakly expressed in resting monocytes. Expressed in dendritic cells derived from monocytes. Expressed in epithelial cells of sinonasal tissue. Expressed in extravillous trophoblast cells and Hofbauer cells of the first trimester placenta and term placenta.

Sequence similarities
Belongs to the immunoglobulin superfamily. BTN/MOG family. Contains 2 Ig-like C2-type (immunoglobulin-like) domains. Contains 2 Ig-like V-type (immunoglobulin-like) domains.

Cellular localization
Membrane.

Images

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>IHC-P</td>
<td>⭐⭐⭐⭐</td>
<td>1/200 - 1/1000.</td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td>1/10000.</td>
</tr>
<tr>
<td>Flow Cyt</td>
<td>1/200 - 1/400.</td>
<td><strong>ab170190</strong> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.</td>
</tr>
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**Target**

**Function**
May participate in the regulation of T-cell-mediated immune response. May play a protective role in tumor cells by inhibiting natural-killer mediated cell lysis as well as a role of marker for detection of neuroblastoma cells. May be involved in the development of acute and chronic transplant rejection and in the regulation of lymphocytic activity at mucosal surfaces. Could also play a key role in providing the placenta and fetus with a suitable immunological environment throughout pregnancy. Both isoform 1 and isoform 2 appear to be redundant in their ability to modulate CD4 T-cell responses. Isoform 2 is shown to enhance the induction of cytotoxic T-cells and selectively stimulates interferon gamma production in the presence of T-cell receptor signaling.

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**Cellular localization**
Membrane.

**Images**

All lanes: Anti-CD276 antibody [6A1] (ab105922) at 1/200 dilution

Lane 1: HEK293 cell lysate
Lane 2: Transfected HEK293 cell lysate

Predicted band size: 57 kDa

Western blot - Anti-CD276 antibody [6A1] (ab105922)
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD276 antibody [6A1] (ab105922)

ab105922, at a 1/200 dilution, staining CD276 in paraffin-embedded Human ovarian cancer tissues.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD276 antibody [6A1] (ab105922)

ab105922, at a 1/200 dilution, staining CD276 in paraffin-embedded Human cervical cancer tissues.

Flow Cytometry - Anti-CD276 antibody [6A1] (ab105922)

Flow cytometric analysis of PC-3 cells using ab105922 (green) and negative control (purple).
Formaldehyde-fixed, paraffin-embedded human tonsil tissue stained for CD276 using ab105922 at 1/800 dilution in immunohistochemical analysis.

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