

**DESCRIPTION**

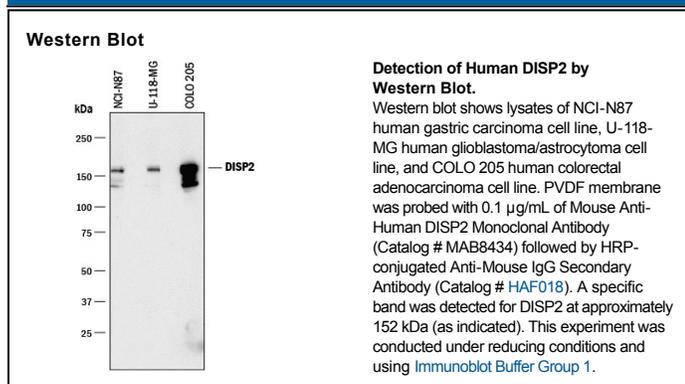
|                           |   |
|---------------------------|---|
| <b>Species Reactivity</b> | Human   |
| <b>Specificity</b>        | Detects human DISP2 in direct ELISAs.   |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 758204   |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human DISP2<br>Arg192-Lys477<br>Accession # A7MBM2  |
| <b>Formulation</b>        | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied 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.

|                     | <b>Recommended Concentration</b> | <b>Sample</b> |
|---------------------|----------------------------------|---------------|
| <b>Western Blot</b> | 0.1 µg/mL                        | See Below     |

**DATA**



**PREPARATION AND STORAGE**

|                                |  |
|--------------------------------|--|
| <b>Reconstitution</b>          | Reconstitute at 0.5 mg/mL in sterile PBS.  |
| <b>Shipping</b>                | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C   |
| <b>Stability &amp; Storage</b> | <b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul> |

**BACKGROUND**

DISP2 (Dispatched Homolog 2), also known as DISPB, belongs to the dispatched family of sterol-sensing proteins. DISP2 and the closely related DISP1 were initially identified in mice by their high homology with Dispatched, a protein required for long-range Hedgehog (Hh) signaling in *Drosophila*. Like DISP1, DISP2 is a multispan (12) transmembrane protein with both cytoplasmic N- and C-terminal tails. DISP2 contains a sterol-sensing domain (SSD) of 173 amino acids (aa), and may be involved in regulating the release of cholesterol-modified Sonic Hedgehog (Shh). Human DISP2 is 1401 aa in length, with three predicted N-linked glycosylation sites. Over aa 192-477, human DISP2 shares 72% and 73% aa identity with mouse and rat DISP2, respectively.