

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human GAB1 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human GAB2, 3, or 4 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 709008
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human GAB1 Asn81-Glu283 Accession # Q13480
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

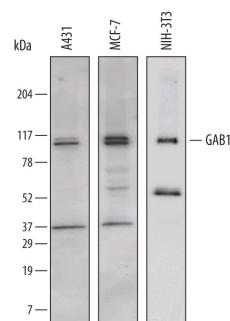
**APPLICATIONS**

**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
<b>Western Blot</b>	1 µg/mL	See Below

**DATA**

**Western Blot**



**Detection of Human and Mouse GAB1 by Western Blot.** Western blot shows lysates of A431 human epithelial carcinoma cell line, MCF-7 human breast cancer cell line, and NIH-3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human GAB1 Monoclonal Antibody (Catalog # MAB7077) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). Specific bands were detected for GAB1 at approximately 110 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<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**

Gab1 (GRB2-associated-binding protein 1) is a 110 kDa member of the Gab family of scaffolding proteins. It is widely expressed, including in T and B cells, and serves as an adaptor molecule for the transmission of signals from cytokine and growth factor receptors. Tyrosine phosphorylation of Gab1 by multiple receptor tyrosine kinases, such as HGF R/c-Met, mediates interaction with multiple proteins containing SH2 domains, such as SHP-2. The 695 amino acid (aa) human Gab1 contains one pleckstrin homology domain (aa 5-116) and a proline-rich sequence (aa 449-540). One isoform with insertion of 30 aa after aa 528 is reported. Over aa 81-283, human Gab1 shares 81% and 82% aa identity with mouse and rat Gab1, respectively.