

DESCRIPTION	
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human IGDC3 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 920038
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Human embryonic kidney cell line HEK293-derived recombinant human IGDC3 Met1-Gly640 Accession # Q81VU1
<b>Formulation</b>	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.

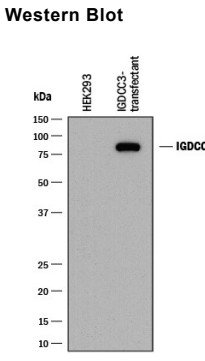
**APPLICATIONS**

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
<b>Western Blot</b>	2 µg/mL	See Below
<b>Flow Cytometry</b>	0.25 µg/10 <sup>6</sup> cells	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

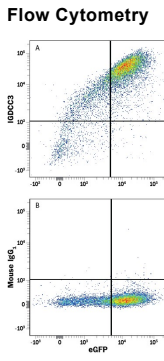
**DATA**

**Western Blot**



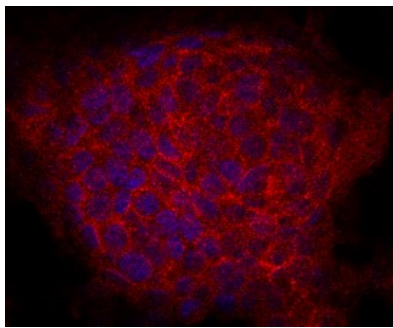
**Detection of Human IGDC3 by Western Blot.** Western blot shows lysates of HEK293 human embryonic kidney cell line either mock-transfected or transfected with human IGDC3. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human IGDC3 Monoclonal Antibody (Catalog # MAB8559) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for IGDC3 at approximately 85 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**Flow Cytometry**



**Detection of IGDC3 in HEK293 Human Cell Line Transfected with Human IGDC3 and eGFP by Flow Cytometry.** HEK293 human embryonic kidney cell line transfected with human IGDC3 and eGFP was stained with either (A) Mouse Anti-Human IGDC3 Monoclonal Antibody (Catalog # MAB8559) or (B) Mouse IgG<sub>1</sub> Isotype Control (Catalog # MAB002) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F1011B).

**Immunocytochemistry**



**IGDC3 in HepG2 Human Cell Line.** IGDC3 was detected in immersion fixed HepG2 human hepatocellular carcinoma cell line using Mouse Anti-Human IGDC3 Monoclonal Antibody (Catalog # MAB8559) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NLO07) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm and cell surfaces. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

**PREPARATION AND STORAGE**

**Reconstitution** Reconstitute at 0.5 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**

IGDC3 (Immunoglobulin superfamily DCC subclass member 3), also known as Punc, is 814 aa single-pass type membrane protein and shares 84% aa identity with mouse IGDC3. It is a member of the neural cell adhesion molecule family and contains two fibronectin type III repeats and four immunoglobulin-like domains. IGDC3 is highly expressed in the brain and has been suggested to play a role in motor coordination. It has also been suggested to play a role in breast cancer.