

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human IGDCC3 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 920038
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell line HEK293-derived recombinant human IGDCC3 Met1-Gly640 Accession # Q81VU1
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 as a 0.2 µm filtered solution in PBS.

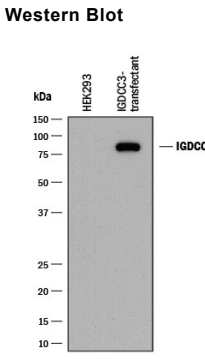
APPLICATIONS

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

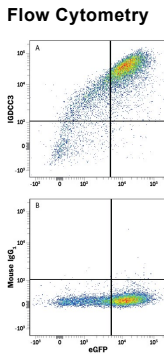
DATA

Western Blot



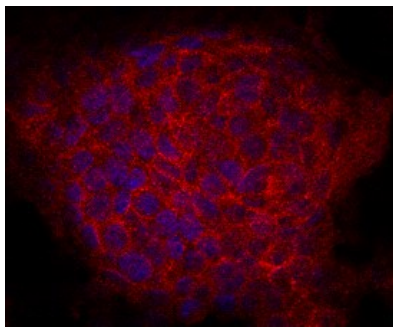
Detection of Human IGDCC3 by Western Blot. Western blot shows lysates of HEK293 human embryonic kidney cell line either mock-transfected or transfected with human IGDCC3. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human IGDCC3 Monoclonal Antibody (Catalog # MAB8559) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for IGDCC3 at approximately 85 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Flow Cytometry



Detection of IGDCC3 in HEK293 Human Cell Line Transfected with Human IGDCC3 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with human IGDCC3 and eGFP was stained with either (A) Mouse Anti-Human IGDCC3 Monoclonal Antibody (Catalog # MAB8559) or (B) Mouse IgG₁ Isotype Control (Catalog # MAB002) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B).

Immunocytochemistry



IGDCC3 in HepG2 Human Cell Line. IGDCC3 was detected in immersion fixed HepG2 human hepatocellular carcinoma cell line using Mouse Anti-Human IGDCC3 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. <ul style="list-style-type: none">● 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

IGDCC3 (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 IGDCC3. It is a member of the neural cell adhesion molecule family and contains two fibronectin type III repeats and four immunoglobulin-like domains. IGDCC3 is high 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.