

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse GDPD2.
Source	Monoclonal Mouse IgG _{2A} Clone # 501016
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	HEK293 human embryonic kidney cell line transfected with human GDPD2 Accession # Q9HCC8
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 either lyophilized or as a 0.2 µm filtered solution in PBS.

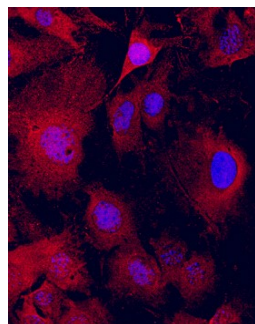
APPLICATIONS

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
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



GDPD2 in MC3T3-E1 Mouse Cell Line. GDPD2 was detected in immersion fixed MC3T3-E1 mouse preosteoblast cell line using Mouse Anti-Human GDPD2 Monoclonal Antibody (Catalog # MAB7026) 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 # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoskeleton. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

Glycerophosphodiester phosphodiesterase 3 (GDPD2), also known as GDE3, is a 65 kDa 7TM cell surface protein that is highly expressed in bone and spleen. GDPD2 promotes osteoblast differentiation and induces changes in the actin cytoskeleton. Its 225 amino acid (aa) N-terminal ECD contains a domain that is homologous to bacterial glycerophosphodiester phosphodiesterases. Human GDPD2 shares 85% aa sequence identity with mouse and rat GDPD2.