

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GPRC5B in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 575926
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human GPRC5B Accession # Q9NZH0
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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
Flow Cytometry	0.25-1 µg/10 ⁶ cells	HEK293 Human Cell Line Transfected with Human GPRC5B and eGFP

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

G-protein coupled receptor family C group 5-member B (GPRC5B) is a retinoic acid-inducible protein that belongs to the seven-transmembrane domain family of receptors. Human GPRC5B shares approximately 85% aa sequence identity with mouse GPRC5B.

Although GPRC5B is considered an "orphan receptor" and its molecular function is not completely understood, it has been implicated in obesity-associated inflammatory signaling in adipocytes and in diet-induced insulin resistance. Consistent with that, CRISPR-Cas9-mediated knock-down of the GPRC5B gene allowed the identification of signaling pathways linking the GPRC5B receptor expression to β-cell proliferation and apoptosis.

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