

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FFAR1/GPR40 in ELISA.
Source	Monoclonal Mouse IgG _{2B} Clone # 1048036
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic peptide within aminoacids 1-50 of human FFAR1/GPR40 Accession # O14842
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.

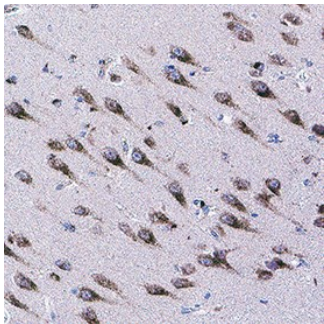
APPLICATIONS

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
Immunohistochemistry	3-25 µg/mL	paraffin-embedded sections of human hypothalamus

DATA

Immunohistochemistry



FFAR1/GPR40 in Human Hypothalamus. FFAR1/GPR40 was detected in immersion fixed paraffin-embedded sections of human hypothalamus using 5 µg/mL Human/Mouse FFAR1/GPR40 Monoclonal Antibody (Catalog # MAB11025) overnight at 4 °C. Tissue was stained with the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

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

Human Free Fatty Acid Receptor 1 (FFAR-1), also known as GPR40, is a class A G-protein coupled receptor (GPCR) for medium and long chain saturated and unsaturated fatty acids encoded by the FFAR1 gene. FFAR-1 is expressed in pancreas and it plays an important role in glucose homeostasis acting as a nutrient sensor. Fatty acid binding increases glucose-stimulated insulin secretion, and may also enhance the secretion of glucagon-like peptide 1 (GLP-1).

References: