Human FFAR2/GPR43
Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 1000624
Catalog Number: FAB10082S
100 µg, 25 Tests

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FFAR2/GPR43 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 1000624
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human FFAR2/GPR43 Met1-Glu330 Accession # O15552
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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 FFAR2/GPR43 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.** • 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Human Free fatty acid receptor 2 (FFA2, FFAR2, GPCR43 or GPR43) is a 330 aminoacids G-protein coupled receptor encoded by the FFAR2 gene. G-protein-coupled receptors (GPCRs) are seven-trans-membrane (7TM) receptors that mediate cellular responses to the majority of hormones and neurotransmitters and are common targets for drug discovery. Human GPR43/FFA2 is present in a large variety of tissues, including adipose tissue, inflammatory cells, and gastrointestinal (GI) tract and is activated by short-chain fatty acids (SCFAs). Studies on knockout mice have identified Free Fatty Acid Receptor 2 (FFAR2 or GPR43) as a critical gene in the prevention of obesity, colitis, asthma and arthritis.

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bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449