

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FFAR3/GPR41 in direct ELISAs.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2590G
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Human FFAR3/GPR41 synthetic peptide
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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	U937 human histiocytic lymphoma cell line

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

GPR41 and GPR42 are two closely related genes that are part of a cluster of four adjacent G protein-coupled receptors (GPR40, 41, 42, and 43). There are only six nucleotide and amino acid differences between GPR41 and GPR42. GPR41 (also known as FFAR3) is a receptor for short chain fatty acids. The rank order of potency for agonists of this receptor isproprionate = pentanoate > butyrate > acetate > formate. The activity of this receptor is coupled to the formation of inositol 1,4,5-trisphosphate, intracellular Ca²⁺ mobilization, the activation of ERK 1/2 and inhibition of intracellular cAMP accumulation.

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