

Human FFAR3/GPR41 Alexa Fluor® 750-conjugated Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2590G Catalog Number: FAB10562S

100 µg

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 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.

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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. • 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 ispropionate = 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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