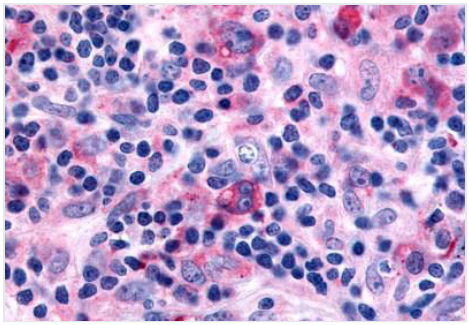
FFAR2 Antibody – Rabbit Polyclonal

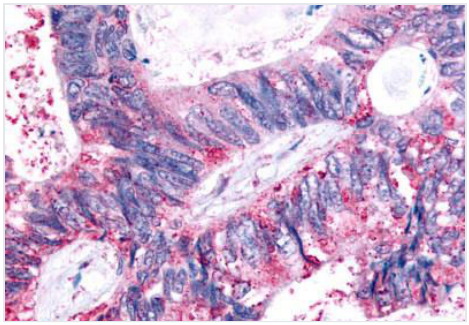
PRODUCT OVERVIEW

Product Name	FFAR2 / GPR43, Polyclonal Antibody
Full Product Name	Rabbit Polyclonal to Human FFAR2 / GPR43
Product Gene Name	anti-FFAR2 antibody
Product Synonym Gene Name	GPR43
Product Synonym Names	Anti-FFAR2 / GPR43 Antibody (Extracellular Domain) IHC-plus; FFAR2; FFA2R; Free fatty acid receptor 2; G protein-coupled receptor 43; G-protein coupled receptor 43; LSSIG; GPR43; Gpcr43; Human FFAR2; GPR43
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Gorilla, Human **Predicted Reactivity:** Monkey (at least 90% immunogen sequence identity)
Form/Format	PBS, 0.1% sodium azide.
Purity/Purification	Immunoaffinity Purified
Concentration	1 mg/ml (lot specific)
Specificity	Human GPR43. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except FFAR3 (47%).
Preparation and Storage	Long term: -70 degree C; Short term: +4 degree C
Molecular Weight	37,144 Da
OMIM	603823
3D Structure	ModBase 3D Structure for O15552
Target Species	Human
Immunogen Description	Synthetic 17 amino acid peptide from 2nd extracellular domain of human GPR43. Percent identity with other species by BLAST analysis: Human, Gorilla (100%); Monkey (94%); Mouse, Rat, Dog, Panda, Rabbit, Pig (88%); Horse, Opossum (82%).
Immunogen Type	Synthetic peptide
Immunogen	FFAR2 / GPR43 antibody was raised against synthetic 17 amino acid peptide from 2nd extracellular domain of human GPR43. Percent identity with other species by BLAST analysis: Human, Gorilla (100%); Monkey (94%); Mouse, Rat, Dog, Panda, Rabbit, Pig (88%); Horse, Opossum (82%).
Antigen Modification	Extracellular Domain
Product Categories/Family for anti-FFAR2 antibody	Family: GPCR; Subfamily: Carboxylic Acid
Applications Tested/Suitable for anti-FFAR2 antibody	Immunohistochemistry (IHC - Paraffin)
Application Notes for anti-FFAR2 antibody	IHC-P (35 ug/ml) Usage: Immunohistochemistry: was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary anti...

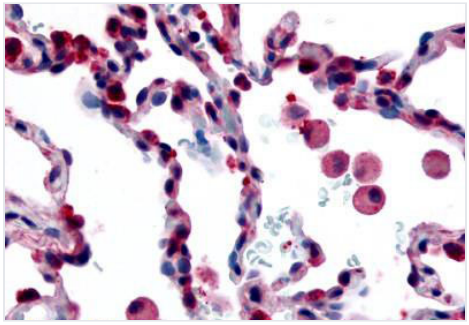
Related Product Information for anti-FFAR2 antibody	GPR43 is classified as a Carboxylic Acid GPCR. The location of this receptor in the immune system is suggestive of potential roles in immune cell function and hematopoiesis.
Other Notes	Small volumes of anti-FFAR2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FFAR2 purchase	MBS240941 is an antibody targeting FFAR2. Also known as Rabbit Polyclonal to Human FFAR2 / GPR43. Reactive in Gorilla, Human **Predicted Reactivity:** Monkey (at least 90% immunogen sequence identity). Host: Rabbit.



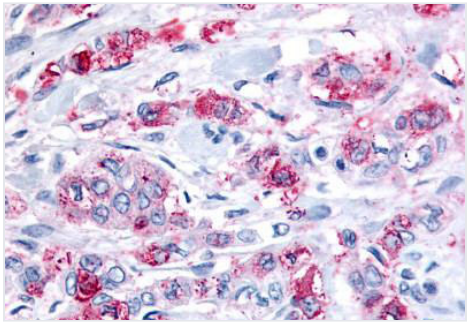
Immunohistochemistry (IHC) of anti-FFAR2 antibody
Anti-FFAR2 / GPR43 antibody IHC of human Lymph Node, Hodgkins Lymphoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry (IHC) of anti-FFAR2 antibody
Anti-FFAR2 / GPR43 antibody IHC of human Colon, Carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry (IHC) of anti-FFAR2 antibody
Anti-GPR43 antibody IHC of human lung, alveolar macrophages. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry (IHC) of anti-FFAR2 antibody
Anti-FFAR2 / GPR43 antibody IHC of human Pancreas, Carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FFAR2. It may not necessarily be applicable to this product.

NCBI GI #	4885333
NCBI GeneID	2867
NCBI Accession #	NP_005297.1
UniProt Primary Accession #	O15552
UniProt Secondary Accession #	Q4VAZ3; Q4VAZ5; Q4VBL5; B0M0J9
UniProt Related Accession #	O15552
GenBank Nucleotide #	NM_005306.2
NCBI Official Full Name	free fatty acid receptor 2
NCBI Official Synonym Full Names	free fatty acid receptor 2
NCBI Official Symbol	FFAR2
NCBI Official Synonym Symbols	FFA2R; GPR43

UniProt Protein Name	Free fatty acid receptor 2
UniProt Synonym Protein Names	G-protein coupled receptor 43
Protein Family	Free fatty acid receptor
UniProt Gene Name	FFAR2
UniProt Synonym Gene Names	FFA2; GPCR43; GPR43
UniProt Entry Name	FFAR2_HUMAN
NCBI Protein Information	free fatty acid receptor 2; G protein-coupled receptor 43; G-protein coupled receptor 43; free fatty acid activated receptor 2
NCBI Summary for FFAR2	This gene encodes a member of the GP40 family of G protein-coupled receptors that are clustered together on chromosome 19. The encoded protein is a receptor for short chain free fatty acids and may be involved in the inflammatory response and in regulating lipid plasma levels. [provided by RefSeq, Apr 2009]
UniProt Comments for FFAR2	FFAR2: Receptor for short chain fatty acids through a G(i)- protein-mediated inhibition of adenylyl cyclase and elevation of intracellular calcium. The rank order of potency for agonists of this receptor is acetate= propionate = butyrate > pentanoate = formate. Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, multi-pass; GPCR, family 1; Receptor, GPCR; Membrane protein, integral Chromosomal Location of Human Ortholog: 19q13.1 Cellular Component: cell projection; integral to plasma membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; protein binding; lipid binding Biological Process: fat cell differentiation; G-protein coupled receptor protein signaling pathway; sequestering of lipid; mucosal immune response; regulation of acute inflammatory response; positive regulation of cytokine production during immune response; cell surface pattern recognition receptor signaling pathway; positive regulation of acute inflammatory response to non-antigenic stimulus; glucose homeostasis; leukocyte chemotaxis during inflammatory response; positive regulation of chemokine production
Research Articles on FFAR2	**1.** [review] In vivo and in vitro studies suggest that short-chain fatty acid receptors (SCFAs) stimulate gut hormone secretion; therefore, the SCFA-FFA signal is likely to be important for gut physiological functions.
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