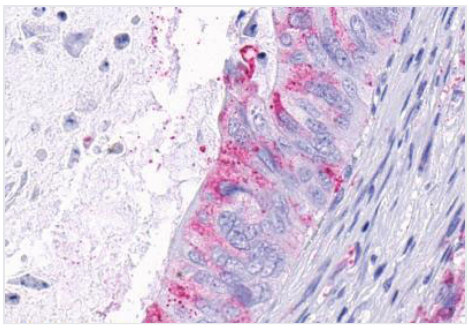
GPR124 Antibody – Rabbit Polyclonal

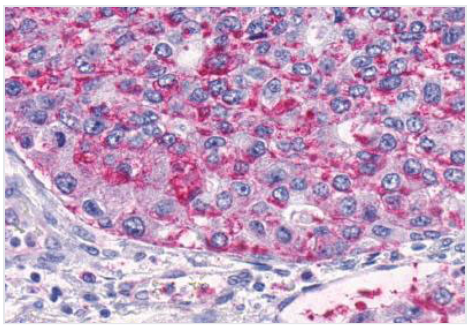
PRODUCT OVERVIEW

Product Name	GPR124 / TEM5, Polyclonal Antibody
Full Product Name	Rabbit Polyclonal to Human GPR124 / TEM5
Product Gene Name	anti-GPR124 antibody
Product Synonym Gene Name	TEM5
Product Synonym Names	Anti-GPR124 / TEM5 Antibody (N-Terminus) IHC-plus; GPR124; G protein-coupled receptor 124; G-protein coupled receptor 124; TEM5; KIAA1531; Tumor endothelial marker 5; Human GPR124; TEM5
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Gibbon, 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 GPR124. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Preparation and Storage	Long term: -70 degree C; Short term: +4 degree C
Molecular Weight	19,530 Da
OMIM	606823
3D Structure	ModBase 3D Structure for Q96PE1
Target Species	Human
Immunogen Description	Synthetic 19 amino acid peptide from N-terminal extracellular domain of human GPR124. Percent identity with other species by BLAST analysis: Human, Gibbon (100%); Monkey, Marmoset, Elephant (95%); Gorilla, Dog, Panda (89%); Bat, Hamster, Horse, Pig (84%).
Immunogen Type	Synthetic peptide
Immunogen	GPR124 / TEM5 antibody was raised against synthetic 19 amino acid peptide from N-terminal extracellular domain of human GPR124. Percent identity with other species by BLAST analysis: Human, Gibbon (100%); Monkey, Marmoset, Elephant (95%); Gorilla, Dog, Panda (89%); Bat, Hamster, Horse, Pig (84%).
Antigen Modification	N-Terminus
Product Categories/Family for anti-GPR124 antibody	Family: GPCR; Subfamily: Orphan-U
Applications Tested/Suitable for anti-GPR124 antibody	Immunohistochemistry (IHC - Paraffin)
Application Notes for anti-GPR124 antibody	IHC-P (2 - 5 ug/ml)
Related Product Information for anti-GPR124 antibody	Tumor endothelial marker 5 is an Orphan-U GPCR with an unknown ligand. Tumor Endothelial Marker 5, like GPR125, has a leucine rich repeat (LRR), an immunoglobulin (Ig) domain, and a hormone-binding domain (HBD). The Ig domain shows similarities to motilin and titin, while the LRR domain shows similarities to LRIG1 and SLIT1-2.

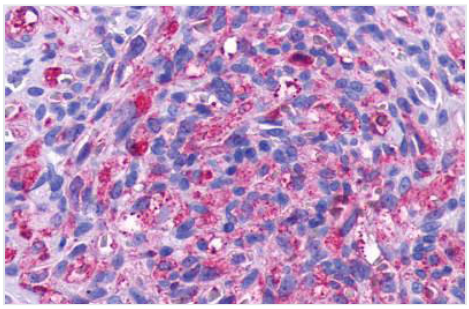
Other Notes	Small volumes of anti-GPR124 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GPR124 purchase	MBS243888 is an antibody targeting GPR124. Also known as Rabbit Polyclonal to Human GPR124 / TEM5. Reactive in Gibbon, Human **Predicted Reactivity:** Monkey (at least 90% immunogen sequence identity). Host: Rabbit.



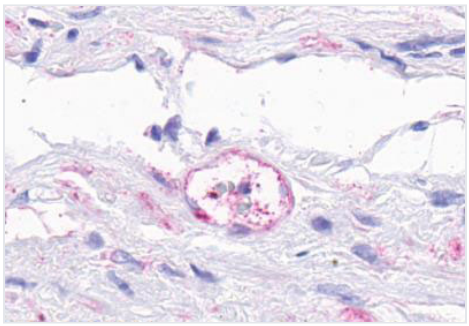
Immunohistochemistry (IHC) of anti-GPR124 antibody
Anti-GPR124 antibody IHC of human colon carcinoma, neoplastic cells. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry (IHC) of anti-GPR124 antibody
Anti-GPR124 / TEM5 antibody IHC of human Lung, Adenocarcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry (IHC) of anti-GPR124 antibody
Anti-GPR124 / TEM5 antibody IHC of human Skin, Kaposis Sarcoma Tumor Endothelium. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry (IHC) of anti-GPR124 antibody
Anti-GPR124 / TEM5 antibody IHC of human Prostate, Carcinoma Capillary Endothelium. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GPR124. It may not necessarily be applicable to this product.

NCBI GI #	194272183
NCBI GeneID	25960
NCBI Accession #	NP_116166.7
UniProt Primary Accession #	Q96PE1
UniProt Secondary Accession #	Q8N3R1; Q8TEM3; Q96KB2; Q9P1Z7; Q9UFY4; A6H8W3; D3DSW4
UniProt Related Accession #	Q96PE1
GenBank Nucleotide #	NM_032777.7
NCBI Official Full Name	probable G-protein coupled receptor 124
NCBI Official Synonym Full Names	G protein-coupled receptor 124
NCBI Official Symbol	GPR124
NCBI Official Synonym Symbols	TEM5
UniProt Protein Name	G-protein coupled receptor 124

UniProt Synonym Protein Names	Tumor endothelial marker 5
UniProt Gene Name	GPR124
UniProt Synonym Gene Names	KIAA1531; TEM5
UniProt Entry Name	GP124_HUMAN
NCBI Protein Information	G-protein coupled receptor 124; tumor endothelial marker 5
UniProt Comments for GPR124	GPR124: Endothelial receptor that acts as an essential regulator of CNS angiogenesis. Required for normal endothelial cell sprouting and migration in the forebrain and neural tube. Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Receptor, GPCR; Membrane protein, integral; Membrane protein, multi-pass; GPCR, family 2 Chromosomal Location of Human Ortholog: 8p11.23 Cellular Component: cell surface; plasma membrane; integral to membrane Molecular Function: G-protein coupled receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; central nervous system development; regulation of chemotaxis; endothelial cell migration; sprouting angiogenesis; regulation of angiogenesis
Research Articles on GPR124	**1.** Observed an inverse correlation between the expression of miR-138-5p and GPR124 in lung adenocarcinoma specimens. Knockdown of GPR124 mimicked the effects of miR-138-5p on the sensitivity to gefitinib.
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