

Rabbit Anti-GPR124/Biotin Conjugated antibody

SL6150R-Bio

Product Name Anti-GPR124/Biotin

Chinese Name 生物素标记的 G protein-coupled receptor124 抗体 (Tumour 血管内皮标记物)

Alias TEM5; DKFZp434C211; DKFZp434J0911; FLJ14390; G protein coupled receptor 124; G-protein coupled receptor 124; GP124_HUMAN; GPR 124; GPR124; KIAA1531; TEM 5; TEM5; Tumor endothelial marker 5 precursor.

Research Area Tumour Cell biology immunology Signal transduction vascular endothelial cell G protein signal

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human,Mouse,Rat(predicted:Dog,Cow,Horse,Rabbit,Sheep)

WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ELISA=1:5000-10000,IF=1:100-500,ICC

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Molecular weight 139kDa

Form Lyophilized or Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human GPR124

Lsotype IgG

Purification affinity purified by Protein A

Storage Buffer 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Product Detail **background:** Tumor endothelial markers (TEMs) display elevated expression during angiogenesis. Their association with the cell surface membrane are of great interest for both biological and clinical research. G protein-coupled receptor 124 (GPR124) is encoded as a seven pass transmembrane protein of 1331 amino acids a

similar to the cadherin related Celsr1 proteins and members of the calcium independent alpha lat receptor family involved in transmitting signals across the cell membrane. GPCRs have been ex targets because their natural ligands can often mimicked for agonistic or antagonistic purpose. Th tumour specific endothelial markers provides a resource for further understanding the mechanis angiogenesis and encourages the development of antiangiogenic therapies in the future. ESTs fo encodes GPR124 have been isolated primarily from amnion, connective tissue, ear, embryo, eye heart, lung, placenta, and skin libraries.

Function:

Endothelial receptor that acts as an essential regulator of CNS angiogenesis. Required for norma cell sprouting and migration in the forebrain and neural tube (By similarity).

Subunit:

Interacts with DLG1.

Subcellular Location:

Cell membrane; Multi-pass membrane protein.

Tissue Specificity:

Expressed in endothelial cells (at protein level). Abundantly expressed in tumor vessels, heart, pl small intestine, and colon.

Similarity:

Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily.

Contains 1 GPS domain.

Contains 1 Ig-like (immunoglobulin-like) domain.

Contains 4 LRR (leucine-rich) repeats.

Contains 1 LRRCT domain.

Contains 1 LRRNT domain.

Database links:

[Entrez Gene: 25960](#) Human

[Entrez Gene: 78560](#) Mouse

[Entrez Gene: 306543](#) Rat

[Omim: 606823](#) Human

[SwissProt: Q96PE1](#) Human

[SwissProt: Q91ZV8](#) Mouse



[Unigene: 274136](#) Human

[Unigene: 87046](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.