Anti-GNAQ Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R011795

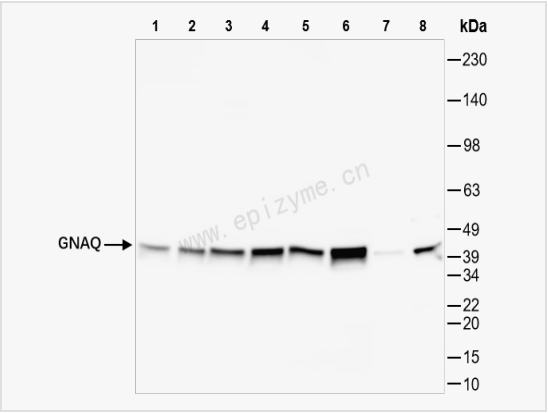
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	82L87L01
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human GNAQ
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-GNAQ Rabbit mAb [82L87L01] is for research use only and not for use in diagnostic or therapeutic procedures.

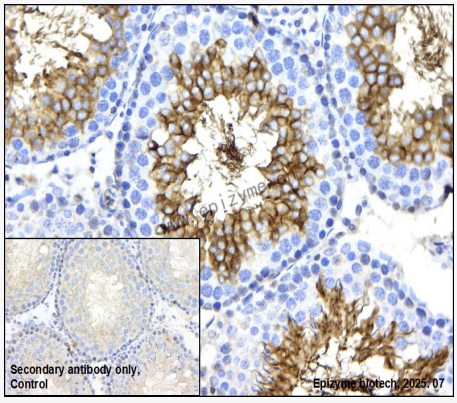
Protein Information

Synonyms	CMC1; G alpha Q; G protein alpha Q; G protein subunit alpha q; G-ALPHA-q; GAQ; GNAQ; GNAQ_HUMAN; guanine nucleotide binding protein (G protein), q polypeptide; Guanine nucleotide binding protein alpha q; guanine nucleotide binding protein G protein q polypeptide; Guanine nucleotide binding protein G q subunit alpha; Guanine nucleotide-binding protein alpha-q; Guanine nucleotide-binding protein G(q) subunit alpha; SWS.
Calculated MW	Calculated MW: 42 kDa; Observed MW: 42 kDa
Uniprot ID	P50148
Gene ID	2776
Background	This locus encodes a guanine nucleotide-binding protein. The encoded protein, an alpha subunit in the Gq class, couples a seven-transmembrane domain receptor to activation of phospolipase C-beta. Mutations at this locus have been associated with problems in platelet activation and aggregation. A related pseudogene exists on chromosome 2.[provided by RefSeq, Nov 2010]
Tissue Location	Predominantly expressed in ovary, prostate, testis and colon.

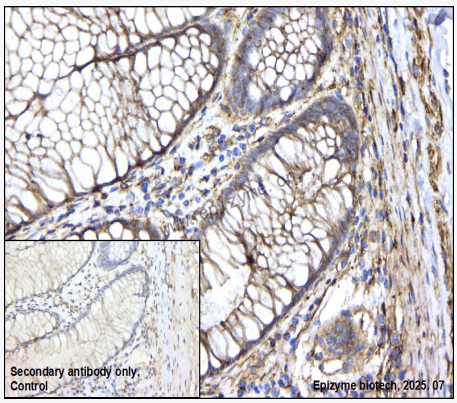
Validation Images



Western Blot - Anti-GNAQ Rabbit mAb [82L87L01]
All lanes: R011795 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: 293T (Human embryonic kidney cell) whole cell lysates
Lane 5: K562 (Human chronic myeloid leukemia cell) whole cell lysates
Lane 6: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 7: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lane 8: Rat brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 42 kDa
Observed band size: 42 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-GNAQ Rabbit mAb [82L87L01]
Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R011795 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-GNAQ Rabbit mAb [82L87L01]
Sample: Paraformaldehyde-fixed, paraffin embedded human colonic cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R011795 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.