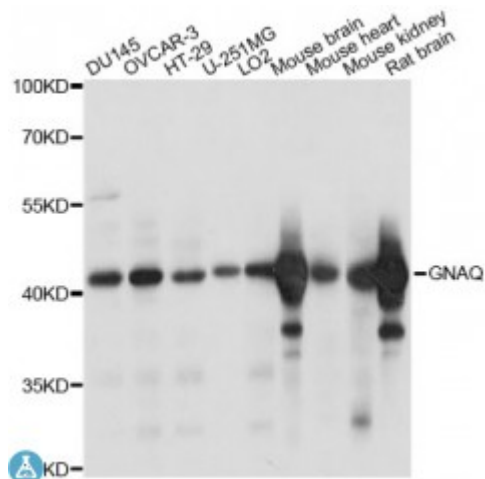


Anti-GNAQ Antibody



Description

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 phospholipase C-beta. Mutations at this locus have been associated with problems in platelet activation and aggregation. A related pseudogene exists on chromosome 2.

Model	STJ116936
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-359 of human GNAQ (NP_002063.2).
Gene ID	2776
Gene Symbol	GNAQ
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Predominantly expressed in ovary, prostate, testis and colon, Down-regulated in the peripheral blood lymphocytes (PBLs) of rheumatoid arthritis patients (at protein level)
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Guanine nucleotide-binding protein G(q subunit alpha Guanine nucleotide-binding protein alpha-q

Molecular Weight	42.142 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:4390 OMIM:163000 Reactome:R-HSA-399997
Alternative Names	Guanine nucleotide-binding protein G(q subunit alpha Guanine nucleotide-binding protein alpha-q
Function	Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems, Regulates B-cell selection and survival and is required to prevent B-cell-dependent autoimmunity, Regulates chemotaxis of BM-derived neutrophils and dendritic cells (in vitro) ,
Cellular Localization	Nucleus
Post-translational Modifications	(Microbial infection) Deamidated at Gln-209 by Photorhabdus asymbiotica toxin PAU_02230, blocking GTP hydrolysis of heterotrimeric GNAQ or GNA11 and G-alpha _i (GNAI1, GNAI2 or GNAI3) proteins, thereby activating RhoA,

St John's Laboratory Ltd

F +44 (0)207 681 2580

T +44 (0)208 223 3081

W <http://www.stjohnslabs.com/>

E info@stjohnslabs.com