

For Research Use Only

# GNAQ Monoclonal antibody, PBS Only



Catalog Number: 68191-1-PBS

## Basic Information

<b>Catalog Number:</b> 68191-1-PBS	<b>GenBank Accession Number:</b> BC057777	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2776	<b>CloneNo.:</b> 2H5G6
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P50148	
<b>Isotype:</b> IgG2b	<b>Full Name:</b> guanine nucleotide binding protein (G protein), q polypeptide	
<b>Immunogen Catalog Number:</b> AG26178	<b>Calculated MW:</b> 42 kDa	
	<b>Observed MW:</b> 38-40 kDa	

## Applications

**Tested Applications:**  
WB, ELISA

**Species Specificity:**  
Human, Mouse, Rat, Rabbit, Pig

## Background Information

GNAQ is a proto-oncogene closely related to the  $\alpha$  subunit of guanine nucleotide-binding proteins (G proteins) that serve as key intermediates between membrane-bound G-protein-coupled receptors (GPCRs) and GPCR signalling nodes. Aberrant expression and activity of G proteins and GPCRs are frequently associated with tumorigenesis. Recent studies show that oncogenic activating mutations in GNAQ are present in 80% of the melanomas. The calculated molecular weight of GNAQ is 42 kDa. This antibody can detect a band of 38-40 kDa in SDS-PAGE. (PMID: 33993733)

## Storage

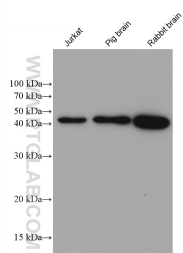
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only

For technical support and original validation data for this product please contact:  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68191-1-Ig (GNAQ antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68191-1-PBS in a different storage buffer formulation.