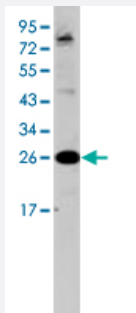


FREQ polyclonal antibody

Catalog # PAB3601

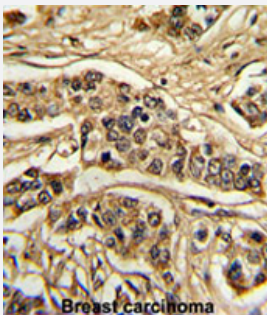
Size 400 uL

Applications



Western Blot (Cell lysate)

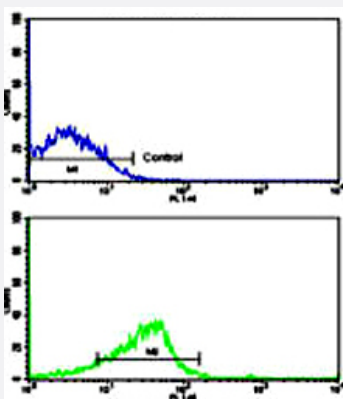
Western blot analysis of MCF-7 cell lysate (35 ug/lane) with FREQ polyclonal antibody (Cat # PAB3601).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human breast carcinoma reacted with FREQ polyclonal antibody (Cat # PAB3601), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining.

This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry

Flow cytometric analysis of ZR-75-1 cells using FREQ polyclonal antibody (Cat # PAB3601) (bottom histogram) compared to a negative control cell (top histogram).

FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic peptide of FREQ.

Immunogen	A synthetic peptide (conjugated with KLH) corresponding to internal region of human FREQ.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Recommend Usage	Flow Cytometry (1:10-50) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-100) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of MCF-7 cell lysate (35 ug/lane) with FREQ polyclonal antibody (Cat # PAB3601).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Flow Cytometry

Flow cytometric analysis of ZR-75-1 cells using FREQ polyclonal antibody (Cat # PAB3601)(bottom histogram) compared to a negative control cell (top histogram).

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Gene Info — FREQ

Entrez GeneID	23413
Protein Accession#	P36610
Gene Name	FREQ

Gene Alias	DKFZp761L1223, FLUP, NCS-1, NCS1
Gene Description	frequenin homolog (Drosophila)
Omim ID	603315
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the neuronal calcium sensor gene family, which encode calcium-binding proteins expressed predominantly in neurons. The protein encoded by this gene regulates G protein-coupled receptor phosphorylation in a calcium-dependent manner and can substitute for calmodulin. The protein is associated with secretory granules and modulates synaptic transmission and synaptic plasticity. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	OTTHUMP00000022356[frequenin homolog][frequenin-like ubiquitous protein]neuronal calcium sensor 1

Publication Reference

- [Up-regulation of neuronal calcium sensor-1 \(NCS-1\) in the prefrontal cortex of schizophrenic and bipolar patients.](#)

Koh PO, Undie AS, Kabbani N, Levenson R, Goldman-Rakic PS, Lidow MS.
PNAS 2003 Jan; 100(1):313.

Application: WB-Ce, Human, LDPFC

- [The neuronal calcium sensor family of Ca²⁺-binding proteins.](#)

Burgoyne RD, Weiss JL.

The Biochemical Journal 2001 Jan; 353(Pt 1):1.

- [Immunocytochemical localization and crystal structure of human frequenin \(neuronal calcium sensor 1\).](#)

Bourne Y, Dannenberg J, Pollmann V, Marchot P, Pongs O.

The Journal of Biological Chemistry 2001 Apr; 276(15):11949.

Application: IF, WB-Ce, WB-Tr, Monkey, COS-7 cells

Disease

- [Anorexia Nervosa](#)
- [Bulimia](#)
- [Genetic Predisposition to Disease](#)

- [Tobacco Use Disorder](#)