

TFG Monoclonal antibody

Catalog Number: 66916-1-Ig

Basic Information

Catalog Number:

66916-1-Ig

Size:

1500 µg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG27697

GenBank Accession Number:

BC023599

GeneID (NCBI):

10342

UNIPROT ID:

Q92734

Full Name:

TRK-fused gene

Calculated MW:

400 aa, 43 kDa

Observed MW:

50-55 kDa

Purification Method:

Protein A purification

CloneNo.:

1B5B9

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

Human, Pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : NCI-H1299 cells, A549 cells, MCF-7 cells, HEK-293 cells, PC-3 cells, LNCaP cells

IHC : human breast cancer tissue, human prostate cancer tissue

Background Information

Protein TFG (TRK-fused gene protein) plays a role in regulating phosphotyrosine-specific phosphatase-1 activity. Mutations in TFG may have important clinical relevance for current therapeutic strategies to treat metastatic melanoma. Defects in TFG are a cause of thyroid papillary carcinoma (TPC), a common tumor of the thyroid that typically arises as an irregular, solid or cystic mass from otherwise normal thyroid tissue. Hereditary motor and sensory neuropathy with proximal dominant involvement (HMSN-P) is an autosomal-dominant neurodegenerative disorder characterized by widespread fasciculations, proximal-predominant muscle weakness, and atrophy followed by distal sensory involvement. Recent genetic investigation indicates that formation of TFG-containing cytoplasmic inclusions and concomitant mislocalization of TAR DNA-binding protein 43 kDa (TDP-43) underlie motor neuron degeneration in HMSN-P. Pathological overlap of proteinopathies involving TFG and TDP-43 highlights a new pathway leading to motor neuron degeneration.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

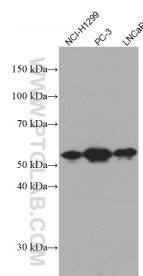
For technical support and original validation data for this product please contact:

T: 4006900926

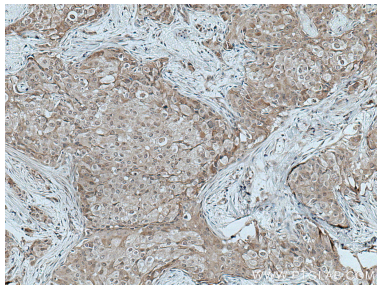
E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

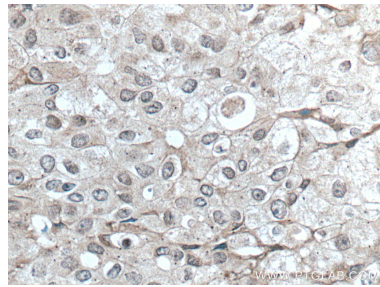
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66916-1-Ig (TGF antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66916-1-Ig (TGF antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66916-1-Ig (TGF antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).