For Research Use Only

TFG Monoclonal antibody

Catalog Number:66916-1-Ig

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Basic Information

Catalog Number:
66916-1-Ig

Size:
150ul , Concentration: 1500 μg/ml by Nanodrop and 1000 μg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG27697

GenBank Accession Number:
BC023599

GeneID (NCBI):
10342

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.

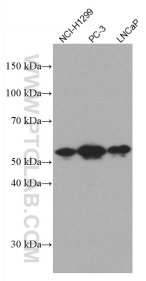
Storage

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

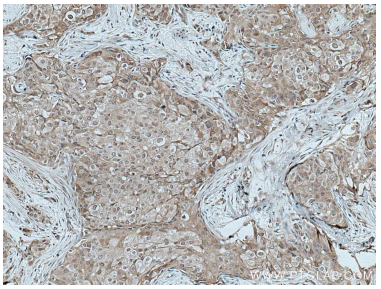
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

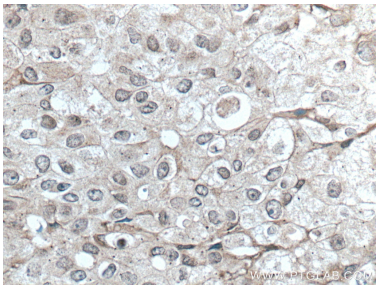
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66916-1-Ig (TFG 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 (TFG 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 (TFG antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).