

TRK fused gene Polyclonal Antibody

Catalog number: 11571-1-AP

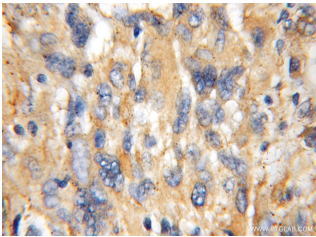
Size: 26 µg/150 µl

Source: Rabbit

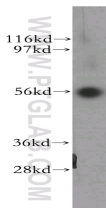
Isotype: IgG

Synonyms:

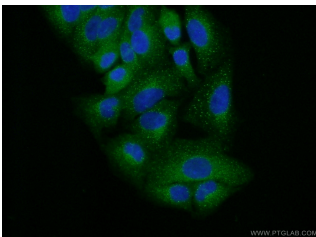
TFG; FLJ36137, Protein TFG, TF6, TFG, TRK fused gene, TRK fused gene protein, TRKT3



Immunohistochemical of paraffin-embedded human gliomas using 11571-1-AP(TFG antibody) at dilution of 1:100 (under 10x lens)



A549 cells were subjected to SDS PAGE followed by western blot with 11571-1-AP(TFG antibody) at dilution of 1:400



Immunofluorescent analysis of (10% Formaldehyde) fixed A549 cells using 11571-1-AP(TFG Antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)

Background

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.

Applications

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|-------------------------------|--|
| Tested applications: | ELISA, WB, IHC, IF |
| Cited applications: | WB |
| Species specificity: | Human, Mouse, Rat; other species not tested. |
| Cited species: | Mouse |
| Calculated TRK fused gene MW: | 400aa, 43 kDa |
| Observed TRK fused gene MW: | 55 kDa |
| Positive WB detected in | A549 cells, HEK-293 cells, mouse thymus tissue, PC-3 cells |
| Positive IHC detected in | Human gliomas tissue |
| Positive IF detected in | A549 cells |
| Recommended dilution: | WB: 1:500-1:5000 IHC: 1:20-1:200 IF: 1:50-1:500 |

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

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|---------------------------|----------------|
| Immunogen: | Ag2151 |
| GenBank accession number: | BC023599 |
| Gene ID (NCBI): | 10342 |
| Full name: | TRK-fused gene |

Product information

| | |
|----------------------|---|
| Purification method: | Antigen affinity purification |
| Storage: | PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C. |