Glutamine-rich 1 (T-20): sc-99908



The Power to Question

BACKGROUND

Glutamine-rich 1 is a 776 amino acid protein containing one CARD domain, which is normally found in proteins that are related to inflammation and apoptosis processes. CARD domains are found in a wide variety of proteins including kinases, caspases, and helicases. The gene encoding Glutamine-rich 1 maps to human chromosome 3. Chromosome 3 is made up of about 214 million bases encoding over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Key tumor suppressing genes on chromosome 3 include those that encode the apoptosis mediator RASSF1, the cell migration regulator HYAL1 and the angiogenesis suppressor SEMA3B. Marfan Syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth Disease are a few of the numerous genetic diseases associated with chromosome 3.

REFERENCES

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- Braga, E.A., et al. 2003. New tumor suppressor genes in hot spots of human chromosome 3: new methods of identification. Mol. Biol. 37: 194-211
- Tsend-Ayush, E., et al. 2004. Plasticity of human chromosome 3 during primate evolution. Genomics 83: 193-202.
- Darai, E., et al. 2005. Evolutionarily plastic regions at human 3p21.3 coincide with tumor breakpoints identified by the "elimination test." Genomics 86: 1-12
- 6. Yue, Y., et al. 2005. Genomic structure and paralogous regions of the inversion breakpoint occurring between human chromosome 3p12.3 and orangutan chromosome 2. Cytogenet. Genome Res. 108: 98-105.
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CHROMOSOMAL LOCATION

Genetic locus: QRICH1 (human) mapping to 3p21.31; Qrich1 (mouse) mapping to 9 F2.

SOURCE

Glutamine-rich 1 (T-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Glutamine-rich 1 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-99908 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Glutamine-rich 1 (T-20) is recommended for detection of Glutamine-rich 1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with family member Glutamine-rich 2.

Glutamine-rich 1 (T-20) is also recommended for detection of Glutamine-rich 1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Glutamine-rich 1 siRNA (h): sc-78280, Glutamine-rich 1 siRNA (m): sc-145452, Glutamine-rich 1 shRNA Plasmid (h): sc-78280-SH, Glutamine-rich 1 shRNA Plasmid (m): sc-145452-SH, Glutamine-rich 1 shRNA (h) Lentiviral Particles: sc-78280-V and Glutamine-rich 1 shRNA (m) Lentiviral Particles: sc-145452-V.

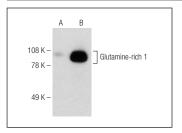
Molecular Weight of Glutamine-rich 1: 86 kDa.

Positive Controls: Glutamine-rich 1 (h): 293T Lysate: sc-110791.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Glutamine-rich 1 (T-20): sc-99908. Western blot analysis of Glutamine-rich 1 expression in non-transfected: sc-117752 (A) and human Glutamine rich 1 transfected: sc-110791 (B) 293T whole cell Ivsates.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.