

quiescin Q6 (G-12): sc-160084

BACKGROUND

Quiescin Q6 (quiescin Q6 sulfhydryl oxidase 1), also known as Q6, QSCN6 or QSOX1, is a 747 amino acid protein that oxidizes sulfhydryl groups of protein/peptide thiols to disulfides while reducing oxygen to hydrogen peroxide. Quiescin Q6 is implicated in growth regulation as its expression is induced in fibroblasts as they exit the proliferative cycle and begin quiescence. A member of the quiescin-sulfhydryl oxidase (QSOX) family, quiescin Q6 is involved in disulfide bond formation and may possess tumor-suppressing capabilities. Expressed in skeletal muscle, heart, lung, placenta, liver and pancreas, quiescin Q6 exists as two isoforms which are formed by alternative splicing; quiescin Q6 isoform 1 is a single-pass membrane protein of the golgi apparatus, whereas quiescin Q6 isoform 2 is a secreted protein found in the extracellular medium of quiescent cells. Quiescin Q6 contains one thioredoxin domain and an ERV/ALR sulfhydryl oxidase domain.

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CHROMOSOMAL LOCATION

Genetic locus: QSOX1 (human) mapping to 1q25.2; Qsox1 (mouse) mapping to 1 G3.

SOURCE

quiescin Q6 (G-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of quiescin Q6 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-160084 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

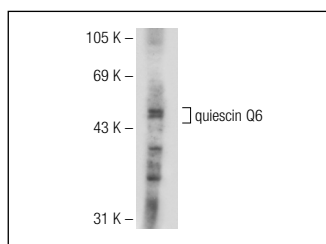
quiescin Q6 (G-12) is recommended for detection of quiescin Q6 isoforms 1 and 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for quiescin Q6 siRNA (h): sc-78632, quiescin Q6 siRNA (m): sc-152618, quiescin Q6 shRNA Plasmid (h): sc-78632-SH, quiescin Q6 shRNA Plasmid (m): sc-152618-SH, quiescin Q6 shRNA (h) Lentiviral Particles: sc-78632-V and quiescin Q6 shRNA (m) Lentiviral Particles: sc-152618-V.

Molecular Weight of quiescin Q6: 83 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

DATA



quiescin Q6 (G-12): sc-160084. Western blot analysis of quiescin Q6 expression in HeLa whole cell lysate.

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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.