



AURA1 (G-16): sc-136573

BACKGROUND

AURA1 (augmented in rheumatoid arthritis 1), also known as oleoyl-ACP hydrolase (OLAH), thioesterase II, S-acyl fatty acid synthase thioesterase, medium chain (SAST) or thioesterase domain containing 1 (THEDC1), is a 265 amino acid protein belonging to the thioesterase family. A component of the fatty acid synthetase complex, AURA1 catalyzes the formation of oleoyl to oleate. AURA1 expression has been found to be augmented in bone marrow-derived mononuclear cells (BMMC) of patients with rheumatoid arthritis (RA) and is encoded by a gene that maps to human chromosome 10p13, a region associated with late-onset Alzheimer disease. Making up 4.5% of the human genome, chromosome 10 encodes roughly 800 genes including PTEN, a tumor suppressor gene that has been linked to the development of Cowden syndrome. The chromosome 10 encoded gene ERCC6 is important for DNA repair and is linked to Cockayne syndrome which is characterized by extreme photosensitivity and premature aging.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: OLAH (human) mapping to 10p13.

STORAGE

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

SOURCE

AURA1 (G-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of AURA1 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-136573 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

AURA1 (G-16) is recommended for detection of AURA1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 AURA1 siRNA (h): sc-90654, AURA1 shRNA Plasmid (h): sc-90654-SH and AURA1 shRNA (h) Lentiviral Particles: sc-90654-V.

Molecular Weight of AURA1: 30 kDa.

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) 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.

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.