

JWA (N-19): sc-48228

BACKGROUND

JWA is a four-transmembrane environmental responsive protein which binds to the CC chemokine receptor 5 (CCR5), a major co-receptor for human immunodeficiency virus (HIV). JWA is involved in environmental stress-responsive pathways in K562 cells, an erythroleukemia cell line derived from patients with chronic myeloid leukemia. Environmental stressors to K562 cells such as heat shock, a higher temperature than the ideal body temperature of the organism from which the cell line was derived, and oxidative stress, the production of oxygen-centered free radicals, regulate and increase the expression of JWA. This response to environmental stressors suggests similarity of JWA to heat shock protein 70 (HSP70), which is upregulated by heat stress and toxic chemicals.

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CHROMOSOMAL LOCATION

Genetic locus: ARL6P5 (human) mapping to 3p14.1; Arl6ip5 (mouse) mapping to 6 D3.

SOURCE

JWA (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of JWA 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-48228 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

JWA (N-19) is recommended for detection of JWA of mouse, rat and 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).

JWA (N-19) is also recommended for detection of JWA in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for JWA siRNA (h): sc-60874, JWA siRNA (m): sc-60875, JWA shRNA Plasmid (h): sc-60874-SH, JWA shRNA Plasmid (m): sc-60875-SH, JWA shRNA (h) Lentiviral Particles: sc-60874-V and JWA shRNA (m) Lentiviral Particles: sc-60875-V.

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.

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.