

DUXA (G-15): sc-167688

BACKGROUND

Homeobox genes encode a DNA-binding domain of 60 to 63 amino acids referred to as the homeodomain. Many of the proteins which are encoded by homeobox genes are believed to play a role in early embryonic development. The gene that encodes DUXA (double homeobox A) is a member of the DUXA homeobox gene family. Localized to nucleus, DUXA contains two homeobox DNA-binding domains and is thought to be a transcription factor. The DUXA gene maps to human chromosome 19, which consists of approximately 63 million bases and makes up over 2% of human genomic DNA. Chromosome 19 includes a diversity of interesting genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin superfamily members including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family, and Fc α receptors.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DUXA (human) mapping to 19q13.43.

SOURCE

DUXA (G-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of DUXA of human origin.

STORAGE

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

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-167688 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DUXA (G-15) is recommended for detection of DUXA 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 DUXA siRNA (h): sc-97591, DUXA shRNA Plasmid (h): sc-97591-SH and DUXA shRNA (h) Lentiviral Particles: sc-97591-V.

Molecular Weight of DUXA: 24 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.