

OC-3 (N-13): sc-240750

BACKGROUND

OC-3 (One cut domain family member 3) is a 494 amino acid nuclear protein that acts as a transcriptional activator. OC-3 binds the consensus DNA sequence 5'-DHWATTGAYTWWD-3' on a diverse array of gene promoters, such as Prealbumin and HNF-3 β . OC-3 is a member of the ONECUT homeobox family and contains one CUT DNA-binding domain and one homeobox DNA-binding domain. ONECUT proteins regulate gene networks by controlling transcription factor expression and also play an important role in cell metabolism and differentiation. OC-3 shares a significant amount of sequence similarity with OC-1 and OC-2 and is found in upper intestine, stomach and brain in both adult and embryonic mouse. Due to their expression patterns, it is likely that all ONECUT proteins participate in the regulation of organ development from the foregut and midgut endoderm.

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CHROMOSOMAL LOCATION

Genetic locus: ONECUT3 (human) mapping to 19p13.3; Onecut3 (mouse) mapping to 10 C1.

SOURCE

OC-3 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of OC-3 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-240750 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

OC-3 (N-13) is recommended for detection of OC-3 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); non cross-reactive with OC-2.

Suitable for use as control antibody for OC-3 siRNA (h): sc-97831, OC-3 siRNA (m): sc-150168, OC-3 shRNA Plasmid (h): sc-97831-SH, OC-3 shRNA Plasmid (m): sc-150168-SH, OC-3 shRNA (h) Lentiviral Particles: sc-97831-V and OC-3 shRNA (m) Lentiviral Particles: sc-150168-V.

Molecular Weight of OC-3: 50 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.

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.