# OOEP (C-13): sc-241586



The Power to Question

#### **BACKGROUND**

OOEP (oocyte-expressed protein homolog), also known as KHDC2 (KH homology domain-containing protein 2) or OEP19 (oocyte- and embryo-specific protein 19), is a 149 amino acid cytoplasmic protein that belongs to the KHDC1 family and contains one KH domain. As a member of the subcortical maternal complex (SCMC), OOEP is necessary for zygotes to progress beyond the first embryonic cell divisions. In addition to OOEP, the SCMC includes NALP5 and TLE6. The gene that encodes OOEP consists of approximately 26,579 bases and maps to human chromosome 6q13. With 170 million base pairs, chromosome 6 comprises nearly 6% of the human genome. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, Porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

# REFERENCES

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# CHROMOSOMAL LOCATION

Genetic locus: OOEP (human) mapping to 6g13.

## **SOURCE**

OOEP (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of OOEP of human origin.

#### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-241586 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **APPLICATIONS**

OOEP (C-13) is recommended for detection of OOEP 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).

Molecular Weight of OOEP: 17 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.

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