



Popeye 2 (L-18): sc-66586

BACKGROUND

Popeye 2, also known as POPDC2 (popeye domain-containing 2) or POP2, is a 364 amino acid multi-pass membrane protein belonging to the popeye (POP) family. Members of the POP family contain three potential transmembrane domains and are preferentially expressed in skeletal and cardiac muscle. Their C-termini localize to the cytoplasm and contain a highly conserved protein domain named the Popeye domain. The Popeye domain is believed to mediate protein homodimerization, suggesting a function for POP family members as adhesion proteins. Popeye 2 shows highest levels of expression in the heart (myocardium) but can also be found at low levels in skeletal muscle. Popeye 2 is the predominant POP protein expressed in heart suggesting that it may be a key player in the development of the heart.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Popdc2 (mouse) mapping to 16 B3.

SOURCE

Popeye 2 (L-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Popeye 2 of mouse 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 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-66586 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Popeye 2 (L-18) is recommended for detection of Popeye 2 of mouse and rat 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 Popeye 2 siRNA (m): sc-62841.

Molecular Weight of Popeye 2: 41 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.