# KLF12 (A-14): sc-84345



The Power to Question

## **BACKGROUND**

Krüppel-like factors (KLFs) comprise a family of evolutionarily conserved zinc finger-containing transcription factors with diverse regulatory functions in cell growth, proliferation, differentiation and embryogenesis. Individual members of the Sp1-like/KLF family can function either as activators or repressors, depending on which promoter they bind and which co-regulators they interact with. KLF12 (Krüppel-like factor 12), also known as AP2REP or HSPC122, is a 402 amino acid protein that localizes to the nucleus and contains 3  $\rm C_2H_2$ -type zinc fingers. One of several members of the Sp1  $\rm C_2H_2$ -type zinc-finger protein family, KLF12 binds to a regulatory element in the AP-2 $\alpha$  gene promotor and, via this binding, functions as a strong repressor of AP-2 $\alpha$  transcription. Two isoforms of KLF12 exist due to alternative splicing events.

## **REFERENCES**

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# CHROMOSOMAL LOCATION

Genetic locus: KLF12 (human) mapping to 13q22.1; Klf12 (mouse) mapping to 14 E2.3.

#### **SOURCE**

KLF12 (A-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of KLF12 of human origin.

# **PRODUCT**

Each vial contains 100  $\mu g$  lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84345 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

KLF12 (A-14) is recommended for detection of KLF12 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)], 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).

KLF12 (A-14) is also recommended for detection of KLF12 in additional species, including equine, canine, bovine and porcine.

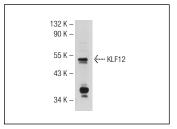
Suitable for use as control antibody for KLF12 siRNA (h): sc-75389, KLF12 siRNA (m): sc-146496, KLF12 shRNA Plasmid (h): sc-75389-SH, KLF12 shRNA Plasmid (m): sc-146496-SH, KLF12 shRNA (h) Lentiviral Particles: sc-75389-V and KLF12 shRNA (m) Lentiviral Particles: sc-146496-V.

Molecular Weight (predicted) of KLF12: 44 kDa.

Molecular Weight (observed) of KLF12: 50/65 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201.

#### **DATA**



KLF12 (A-14): sc-84345. Western blot analysis of KLF12 expression in A-431 whole cell lysate.

#### **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.



Try **KLF12 (NQ-C45): sc-134373**, our highly recommended monoclonal alternative to KLF12 (A-14).

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