SMARCD2 (F-34): sc-101162

**BACKGROUND**

SMARCD2 (SWI/SNF related, matrix associated, Actin dependent regulator of chromatin, subfamily D, member 2), also known as Rsc6p, PRO2451, BAF60B (BRG1-associated factor 60B) or CRACD2, is a member of the SMARC family and contains one SWIB domain. Expressed in liver, muscle, pancreas, lung and placenta, SMARCD2 localizes to the nucleus and is a component of the ATP-dependent chromatin remodeling complex SWI/SNF and is believed to play a role in nucleosome remodeling. The SWI/SNF complex is involved in the activation of transcription via the remodeling of nucleosome structure in an ATP-dependent manner. SMARCD2 is a homolog of the *Saccharomyces cerevisiae* protein Swp73, a component of the yeast Swi/Snf complex that is required for transcriptional activation. Due to alternative splicing events, two isoforms exist for SMARCD2.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: SMARCD2 (human) mapping to 17q23.3; SmarcD2 (mouse) mapping to 11 E1.

**SOURCE**

SMARCD2 (F-34) is a mouse monoclonal antibody raised against a C-terminal region of SMARCD2 of human origin.

**PRODUCT**

Each vial contains 100 µg IgG κ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

SMARCD2 (F-34) is recommended for detection of SMARCD2 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), immunohistochemistry (including paraffin-embedded sections) (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 SMARCD2: 60 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, THP-1 cell lysate: sc-2238 or Jurkat whole cell lysate: sc-2204.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

3) Immunofluorescence: use m-IgG G FITC: sc-516140 or m-IgG PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.


**DATA**

![Western Blot](image1)

- SMARCD2 (F-34) sc-101162. Western blot analysis of SMARCD2 expression in Jurkat (A), THP-1 (B), COLO 205 (C), RAW 264.7 (D), NIH/3T3 (E) and PC-12 (F) whole cell lysates.

- SMARCD2 (F-34): sc-101162. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human breast tissue showing nuclear localization.

**SELECT PRODUCT CITATIONS**


**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 for detailed protocols and support products.