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ASB-5 (E-8): sc-518247

BACKGROUND

ASB-5 (ankyrin repeat and SOCS box-containing 5), also known as ASB5, is a 329 amino acid protein belonging to the ankyrin repeat and SOCS (suppressor of cytokine signalling) box-containing family. ASB-5 contains six ANK repeats and one SOCS box domain, which ASB-5 utilizes for binding SOCS proteins and binding partners of the Elongin BC complex, an adapter module in E3 ubiquitin-protein ligase complexes. ASB-5 may function as a substrate-recognition component of an SCF-like ECS (Elongin-Cullin-SOCS-box protein) E3 ubiquitin-protein ligase complex, which regulates ubiquitination and subsequent proteasomal degradation of target proteins. ASB-5 may also play a role in arteriogenesis initiation. Conserved in chimpanzee, canine, bovine, mouse, rat, chicken and zebrafish, ARM-5 is encoded by a gene that maps to human chromosome 4q34.2.

REFERENCES

1. Breen, M., et al. 1997. Genetical and physical assignments of equine microsatellites—first integration of anchored markers in horse genome mapping. *Mamm. Genome* 8: 267-273.
2. Boengler, K., et al. 2003. The ankyrin repeat containing SOCS box protein 5: a novel protein associated with arteriogenesis. *Biochem. Biophys. Res. Commun.* 302: 17-22.
3. Seale, P., et al. 2004. Muscle satellite cell-specific genes identified by genetic profiling of MyoD-deficient myogenic cell. *Dev. Biol.* 275: 287-300.
4. Zhang, S.X., et al. 2005. Identification of direct serum-response factor gene targets during Me₂SO-induced P19 cardiac cell differentiation. *J. Biol. Chem.* 280: 19115-19126.
5. Yoshioka, M., et al. 2006. Effects of dihydrotestosterone on skeletal muscle transcriptome in mice measured by serial analysis of gene expression. *J. Mol. Endocrinol.* 36: 247-259.

CHROMOSOMAL LOCATION

Genetic locus: ASB5 (human) mapping to 4q34.2.

SOURCE

ASB-5 (E-8) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 224-250 of ASB-5 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ASB-5 (E-8) is available conjugated to agarose (sc-518247 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-518247 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-518247 PE), fluorescein (sc-518247 FITC), Alexa Fluor® 488 (sc-518247 AF488), Alexa Fluor® 546 (sc-518247 AF546), Alexa Fluor® 594 (sc-518247 AF594) or Alexa Fluor® 647 (sc-518247 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-518247 AF680) or Alexa Fluor® 790 (sc-518247 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

ASB-5 (E-8) is recommended for detection of ASB-5 of human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for ASB-5 siRNA (h): sc-72556, ASB-5 shRNA Plasmid (h): sc-72556-SH and ASB-5 shRNA (h) Lentiviral Particles: sc-72556-V.

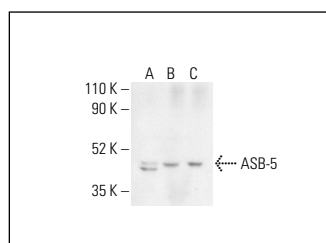
Molecular Weight of ASB-5: 36 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201, HeLa whole cell lysate: sc-2200 or HEK293T whole cell lysate: sc-45137.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



ASB-5 (E-8): sc-518247. Western blot analysis of ASB-5 expression in A-431 (A), HEK293T (B) and HeLa (C) whole cell lysates. Detection reagent used: m-IgG₁ BP-HRP: sc-525408.

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.