**BACKGROUND**

Clara cell 10 (CC10) protein, a homologue of rabbit uteroglobin, is a phospholipase A2 inhibitor. CC10 is regulated by AP-1, octamer, and hepatocyte nuclear factor-3 (HNF-3) family transcription factors. CC10 expression changes in relation to the ovarian menstrual cycle, and expression in human endometrium may be stimulated by progesterone, suggesting that CC10 may regulate eicosanoid levels in the human uterus. CC10 is expressed in nonciliated airway epithelial cells in the lung and in urogenital secretions. CC10 is involved in modulating inflammation in airway passages and may play a role in asthma. Overexpression of CC10 in the non-small cell lung cancer cell line A549 was shown to result in the near absence of MMP-2 and MMP-9 matrix metalloproteinases and a reduction in invasiveness, indicating that loss of CC10 may contribute to carcinogenesis.

**CHROMOSOMAL LOCATION**

Genetic locus: SCGB1A1 (human) mapping to 11q12.3; Scgb1a1 (mouse) mapping to 19A.

**SOURCE**

CC10 (E-11) is a mouse monoclonal antibody raised against amino acids 17-91 of CC10 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.

CC10 (E-11) is available conjugated to agarose (sc-365992 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-365992 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-365992 PE), fluorescein (sc-365992 FITC), Alexa Fluor® 488 (sc-365992 AF488), Alexa Fluor® 546 (sc-365992 AF546), Alexa Fluor® 594 (sc-365992 AF594) or Alexa Fluor® 647 (sc-365992 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-365992 AF680) or Alexa Fluor® 790 (sc-365992 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**APPLICATIONS**

CC10 (E-11) is recommended for detection of CC10 of mouse, rat and 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), 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).

Suitable for use as control antibody for CC10 siRNA (h): sc-29954, CC10 siRNA (m): sc-29955, CC10 shRNA Plasmid (h): sc-29954-SH, CC10 shRNA Plasmid (m): sc-29955-SH, CC10 shRNA (h) Lentiviral Particles: sc-29954-V and CC10 shRNA (m) Lentiviral Particles: sc-29955-V.

Molecular Weight of CC10: 10 kDa.

Positive Controls: A549 cell lysate: sc-2413, NCI-H292 whole cell lysate: sc-364179 or WI-38 whole cell lysate: sc-364260.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

Simultaneous direct near-infrared western blot analysis of CC10 expression, detected with CC10 (E-11) Alexa Fluor® 680: sc-365992 AF680 and β-Actin expression, detected with β-Actin (C4) Alexa Fluor® 790: sc-47778 AF790 in human lung (A) and mouse lung (B) tissue extracts and A549 (C), NCI-H292 (D) and WI-38 (E) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214.

**SELECT PRODUCT CITATIONS**


**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.