



Certificate of Analysis

Anti-Clara Cell Secretory Protein

(rabbit antiserum)

Catalog # 07-623

Lot # 2458932

Immunogen: A synthetic peptide corresponding to amino acids 45-68 of mouse CCSP coupled to KLH.

Specificity: Recognizes Clara Cell Secretory Protein, Mr 10 kDa.

Species Cross-reactivity: Rat and mouse. Other species not tested

Formulation: 100 µL of rabbit antiserum containing 0.05% sodium azide and 30% glycerol. Store at -20°C.

Storage and Stability: Stable for 2 years at -20°C from date of shipment. For maximum recovery of product, centrifuge the vial prior to removing the cap.

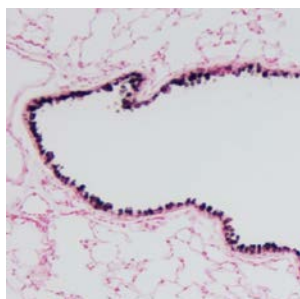
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Quality Control Testing

Immunohistochemistry: A 1:2000 dilution of this lot detected CCSP in sections.

Additional Research Applications

Immunoblot Analysis: This antibody has been reported to detect CCSP in mouse lung nuclear extracts



Immunohistochemistry Analysis
Representative lot data. Paraffin-embedded adult mouse lung sections were stained with anti-Clara Cell Secretory Protein (1:2000 dilution). Proteins were visualized using a goat anti-rabbit secondary antibody and an ABC detection system.

General References:

1. Shijubo, Noriharu, *et al* (2003). Clinical aspects of Clara cell 10-kDa protein/ uteroglobin (secretoglobin 1A1). *Curr Pharm Des* **9**: 1139-49.
2. Chang, A, *et al* (2000). Physiological regulation of uteroglobin/CCSP expression. *Ann N Y Acad Sci* **923**: 181-92.
3. Harrod, K S, *et al* (1998). Clara cell secretory protein decreases lung inflammation after acute virus infection. *Am J Physiol* **275**: L924-30.
4. Stripp, B R, *et al* (1996). Clara cell secretory protein: a determinant of PCB bioaccumulation in mammals. *Am J Physiol* **271**: L656-64.

Immunohistochemistry Protocol

1. Dewax paraffin-embedded sections through xylene (3 changes) and rehydrate through descending alcohol (100%-95%-70%) to deionized H₂O.
2. Soak in 1X PBS for 5 minutes.
3. Quench endogenous peroxidase activity for 15 minutes (1.5% hydrogen peroxide in methanol). Rinse in PBS for 5 minutes.
4. Perform Normal Serum Block (NSB): 2-4% Goat Serum in PBS/Triton* for 1-2 hours.
5. Incubate samples with a **1:2000 dilution of anti-Clara Cell Secretory Protein**, diluted in NSB at 4°C overnight.
6. Rinse samples five times with PBS/Triton.
7. Apply secondary antibody (Vector Laboratory Inc. Goat anti Rabbit, Catalog # BA1000 was used at 1:200 in NSB for 30 minutes).
8. Rinse samples five times with PBS/Triton.
9. Apply ABC kit reagents (Vector Laboratory Inc. ABC Elite, Catalog # PK6100 was used for 30 minutes).
10. Rinse samples five times with PBS/Triton.
11. Perform DAB development with cobalt/nickel amplification: 4 minutes DAB with nickel sulfate, followed by 10 dips 0.1M TBS and 4 minutes Tris-Cobalt.
12. Counterstain with 0.1% Nuclear Fast Red (2-3 minutes).
13. Rinse in water, dehydrate, apply coverslip.

*PBS/Triton: 0.1 M Phosphate Buffer, 0.9% NaCl, 0.3% Triton X-100

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