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Product Information

Anti-Ciliated Cell Marker antibody, Mouse monoclonal
clone LhS 28, purified from hybridoma cell culture

Product Number C5867

Product Description

Anti-Ciliated Cell Marker antibody, Mouse monoclonal (mouse IgG1 isotype) is derived from the hybridoma LhS 28 produced by the fusion of mouse myeloma cells (Sp2/0 cells) and splenocytes from BALB/c mice immunized with BHK a21 cytoskeletal preparation. The isotype is determined using a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents, Product Number ISO2.

Anti-Ciliated Cell Marker antibody, Mouse monoclonal recognizes an antigen in human[1-3] and hamster ciliated cells. The antibody may be used in immunoelectron microscopy,[3] immunoblotting (~45 kDa),[3] immunohistochemistry,[2] and immunocytochemistry.[1]

The mouse hybridoma LhS 28 secretes a monoclonal antibody that recognizes a 44-45 kDa protein associated with human ciliated epithelial cells. This antigen is expressed in the sub-apical zone of ciliated epithelial cells of the Fallopian tube and upper respiratory tract, but not in ciliated ependyma, non-ciliated epithelia or testis containing developing spermatozoa. The antigen recognized by LhS 28 is associated with the basal body structure of the cilium and specifically with the 9+0 microtubule arrays. This antibody may be used as a tool in the detection of ciliated cells in normal and pathological human specimens and for investigating mechanisms of ciliogenesis.[1-3]

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide.

Antibody concentration: ~2 mg/mL

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2–8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunocytochemistry: a working concentration of 1–2 μg/mL is recommended using BHK a21 cells.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining optimal working dilutions by titration.

References

1. Comer, M.T., et al., *Human Repro*., **13**, 3114-3120 (1998).
2. Comer, M.T., et al., *J. Clin. Pathol*., **52**, 355-357 (1999).
3. Comer, M.T., et al., *Histochem. J*., **31**, 39-43 (1999).UH

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