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## **Monoclonal Antibody To Bronchial Basement Cells**

### **Marker with a distinctive specificity in lung tissue**

Monoclonal antibody PLB42 is a particularly interesting marker of bronchial basement cells of the lung epithelium. The prominent staining of basal cells clearly divides the pseudostratified columnar epithelial cell layer from the underlying basement membrane and lamina propria. A subpopulation of basal cells probably carries stem cell characteristics and is involved in cell replacement.

Other comparable structures such as the basement cells of the intestinal epithelium are not specifically stained. However, Leydig cells (also known as interstitial cells of Leydig) in the testes are stained positively.

*This antibody was produced serum-free, without fetal calf serum.*

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**Product number: T-3520**

**Clone: PLB42**

**Lot: 01PO1509**

### **TECHNICAL AND ANALYTICAL CHARACTERISTICS:**

<b>Host species, isotype:</b>	Mouse IgG1, kappa
<b>Quantity:</b>	0.25mg
<b>Format:</b>	Affinity purified from cell culture supernatant, lyophilized. Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.5mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.05% (v/v) Kathon CG as a preservative.
<b>Stability:</b>	Original vial: 1 year at 4° - 8°C. Avoid repeated thawing and freezing of the reconstituted antibody.
<b>Applications:</b>	Tested for immunohistochemistry (IHC), other applications not yet tested.  <b>Approximate working dilutions:</b> IHC, frozen sections: 1µg/ml (1:500) IHC, paraffin sections: 2.5µg/ml (1:200) Proteinase K pretreatment for antigen retrieval is recommended.  Optimal dilutions should be determined by the end user. Please see <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Immunogen:</b>	Porcine lung extract.
<b>Antigen, epitope:</b>	The antigen has not yet been identified. The immunohistochemical staining pattern doesn't match other well-known basal cell markers. Further characterization is under way.

**Antigen distribution:** **Tissue sections:** The antibody reacts with bronchial basement cells of the lung and Leydig cells in the testes.

**Specificity:** **Pig:** bronchial basement cells, Leydig cells  
**Other species:** reacts with human tissue

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This product contains Kathon as a preservative and is intended for *in vitro* laboratory use and research purposes only. Purchase of this product does not include authorization to reverse engineer any part thereof, nor to use it in diagnostic or therapeutic applications.