

## Keratin 4 Ab-1 (Clone 6B10)

### Mouse Monoclonal Antibody

Cat. #MS-923-S0, -S1, or -S (0.1ml, 0.5ml, or 1.0ml Supernatant)

Cat. #MS-923-R7 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)

Cat. #MS-923-PCS (5 Slides) (Positive Control for Histology)

**Description:** Keratin 4, which belongs to the type B (II) (basic) subfamily of high molecular weight keratins and exists in combination with cytokeratin 13. It is primarily found in the non-cornifying squamous epithelium e.g. superficial and intermediate epithelial cells of the esophagus, ectocervix, tongue, vagina, larynx, pharynx, epiglottis, anus and the superficial cells of the cornea. Keratin 4 is also present in the suprabasal cells of the urinary bladder transitional epithelium in single cells and cell groups of sweat glands, prostatic ducts and in cylindrical, ciliated bronchial epithelial cells. Keratin 4 may be detected in squamous cell carcinomas derived from several non-cornified stratified epithelia.

**Mol. Wt. of Antigen:** 59kDa

**Epitope:** Not determined

**Species Reactivity:** Human. Others-not known.

**Clone Designation:** 6B10

**Ig Isotype:** IgG<sub>1</sub>

**Immunogen:** Cytokeratin purified from human esophagus.

### Applications and Suggested Dilutions:

- Immunohistology (Formalin/paraffin)  
(Use Ab at 1:10 for 60 min at RT)
- \* (Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 1mM EDTA, pH 8.0 (Cat. #AP-9004), for 10-20 min followed by cooling at RT for 20 min.)

The optimal dilution for a specific application should be determined by the investigator.

**Positive Control:** Epithelial cells in tonsil.

**Cellular Localization:** Cytoplasmic

**Storage and Stability:** Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.

### Supplied As:

Tissue culture supernatant with 0.09% sodium azide,  
or

Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

### Key Reference:

1. Van Muijen GNP, et. al. Exp Cell Research, 1986: 126:97-113.

### Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

### Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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