

## Product datasheet for **AM10028PU-S**

### pan Cytokeratin Mouse Monoclonal Antibody [Clone ID: AE1/AE3]

#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Clone Name:           | AE1/AE3  |
| Applications:         | IF, IHC  |
| Recommended Dilution: | <b>Immunocytochemistry.</b><br><b>Immunohistochemistry on Frozen and Formalin-Fixed Paraffin-Embedded Sections and cell Smears.</b><br>Dilute concentrated antibody at 1/50-1/100, use streptavidin-biotin system or polymer system, incubate 30 minutes at room temperature.<br>For FFPE tissue sections antigen retriever like trypsin is required.<br><b>Recommended Positive Control:</b> Human skin, lung ca.   |
| Reactivity:           | Bovine, Chicken, Human, Monkey, Mouse, Porcine, Rabbit, Rat  |
| Host:                 | Mouse  |
| Isotype:              | IgG1   |
| Clonality:            | Monoclonal   |
| Immunogen:            | Human epidermal keratin.   |
| Specificity:          | <i>AE 1/AE 3</i> represents an excellent marker for distinguishing carcinomas from non-epithelial tumors; reacts with all epithelium-derived tumors and their neoplasms. Decorates the majority of type I and type II keratins (formerly also designated cytokeratins). This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas. This antibody <i>AE 1/AE 3</i> recognizes Low Molecular Weight Cytokeratins (CK 10 (56.5), CK14 (50), CK15 (50), CK16 (48) and CK19 (40) of the acidic family and CK1 (67), CK2 (65.5), CK3 (64), CK4 (59), CK5 (58) CK6 (56) and CK8 (52.5).<br><b>Cellular Localization:</b> Cytoplasmic. |
| Formulation:          | PBS, pH 7.4<br>State: Purified<br>State: Liquid purified IgG fraction<br>Stabilizer: 1% BSA<br>Preservative: 0.05% Sodium Azide  |
| Concentration:        | lot specific   |



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| <b>Purification:</b> | Protein A Chromatography  |
| <b>Conjugation:</b>  | Unconjugated  |
| <b>Storage:</b>      | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.  |
| <b>Stability:</b>    | Shelf life: One year from despatch.   |
| <b>Background:</b>   | Cytokeratins are intermediate filament keratins found in the intracytoplasmic cytoskeleton of epithelial tissue. There are two types of Cytokeratins: the low weight, acidic type I cytokeratins and the high weight, basic or neutral type II. Cytokeratins are usually found in pairs comprising a type I Cytokeratin and a type II cytokeratin. The high molecular weight cytokeratins, which are the basic or neutral cytokeratins, comprise subtypes CK1(67), CK2(65.5), CK3(64), CK4(59), CK5(58), CK6(56), CK7(54), CK8(52.5) and CK9. The low molecular weight cytokeratins, which are the acidic cytokeratins, comprise subtypes CK10 (56.5), CK12 (56), CK13 (53), CK14 (50), CK16 (48), CK17 (46), CK18 (45), CK19 (48) and CK20 (46). |
| <b>Synonyms:</b>     | pan Keratin, Cytokeratin pan-reactive   |