OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for BM4068

pan Cytokeratin Mouse Monoclonal Antibody [Clone ID: Lu5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	Lu5
Applications:	IHC
Recommended Dilution:	**Immunohistochemistry on Frozen Sections:** 0.4-0.8 µg/ml (1/500-1/1000). **Immunohistochemistry on Paraffin Sections:** 2 µg/ml (1/200). Proteinase K pretreatment for antigen retrieval is recommended. ***Suggested Positive Control:*** Human tonsil.
Reactivity:	Amphibian, Bovine, Chicken, Human, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human lung cancer cell line
Specificity:	Monoclonal antibody BM4068 recognizes most subtypes of cytokeratins in cryofixed and paraffin sections and is ideally suited as a first order pan-epithelial marker: Clone Lu-5 stains an intracytoplasmic, formaldehyde (paraffin embedding) resistant epitope on the surface of cytokeratin filaments. The epitope recognized by this antibody is a formalin-resistant marker of great value in tumour diagnosis, located on the surface of cytokeratin filaments. It has been preserved during vertebrate evolution and can be shown in all species from amphibia to man. The epitope is present in most cytokeratin polypeptides of both the acidic (type I) and basic (type II) subfamily but does not occur in other cytoskeletal proteins. The epithelial specificity and the broad tissue and species cross-reactivity provide an excellent probe for the differential diagnosis of epithelial versus mesenchymal tumours, large cell lymphomas and neural tumours.
Formulation:	PBS, pH 7.2 State: Aff - Purified State: Lyophilized purified Ig fraction Stabilizer: 5 mg/ml BSA Preservative: 0.05% Kathon
Reconstitution Method:	Restore by adding 0.5 ml distilled water. This stock solution contains 0.4 mg/ml IgG.

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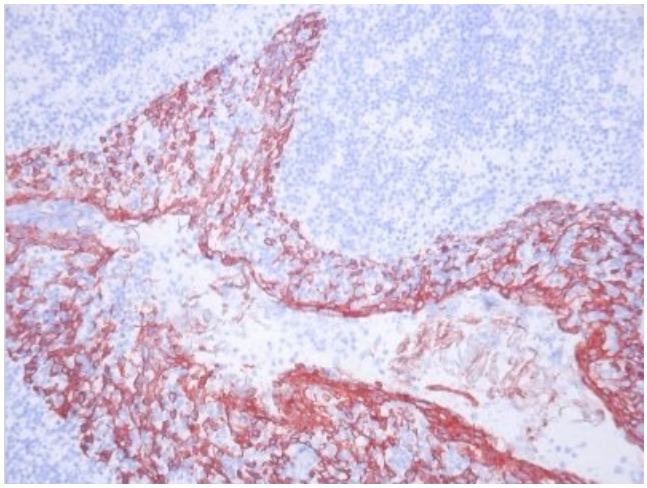
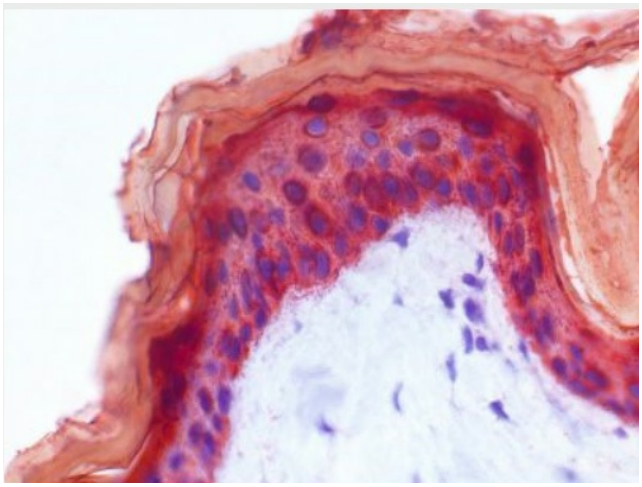
Concentration:	0.4 mg/ml (after reconstitution)
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Synonyms:	pan Keratin, Cytokeratin pan-reactive
Note:	Lu-5 has been tested on a wide variety of healthy and tumorous human tissues. 95% of epithelial tumours regardless of their localisation and grade of differentiation were detected (Von Overbeck et al. 1985). It is currently used for differentiating epithelial and mesothelial tumours from mesenchymal tumours, large cell lymphomas and neuronal tumours.

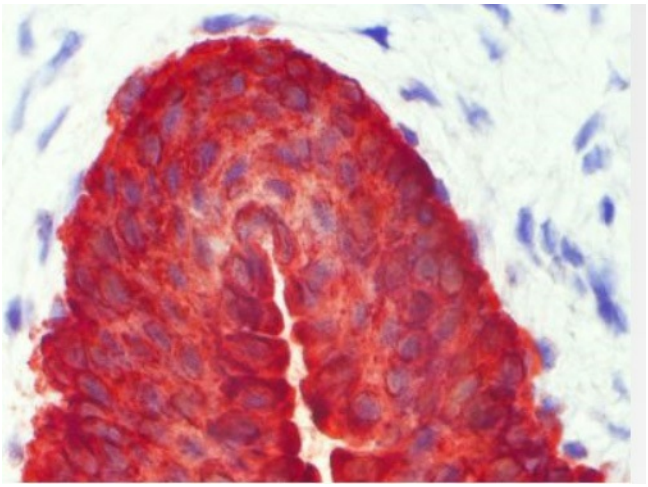
Product images:



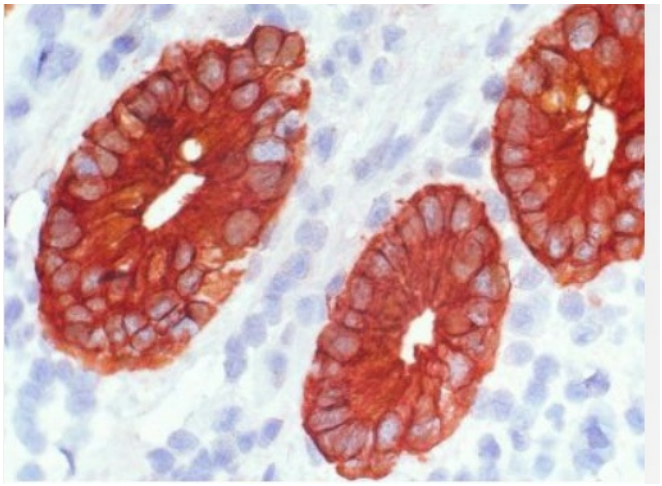
BM4068 Cytokeratin antibody staining of Human Tonsil Frozen Section.



BM4068 Cytokeratin antibody staining of Swine Skin Frozen Section.



BM4068 Cytokeratin antibody staining of Swine Uterus Frozen Section.



BM4068 Cytokeratin antibody staining of Swine Ileum Paraffin Section.

Normal tissues:		Tumours:	
Stomach	1/1	Gastrointestinal tract	73/73[a]
Colon	6/6	Urogenital tract	72/78[a]
Liver	12/12	Respiratory tract	78/79
Pancreas	3/3	Endocrine tumours	48/57
Salivary glands	1/1	Skin	11/11
Tonsil	10/10	Metastases (unknown primaries)	9/10
Bronchial and alveolar epithelium	9/9	Mixed tumours	12/12[b]
Pleura	1/1	Mesothelial tumours	9/9
Kidney	15/15	Lymphomas	0/25
Prostate	8/8	Melanoma	0/21
Epididymis	4/4[a]	Neural tumours	0/14
Ovary	2/2	Seminoma	0/4
Vagina	1/1	Soft tissue tumours	0/41
Fallopian tube	1/1		
Breast	3/3		
Thyroid	4/4		
Epidermis (all layers)	3/3		
Adrenal cortex	3/7		
Synovial epithelium	2/3		
Spleen	0/4		
Muscle	0/2		
Myocardium	0/2		
Myometrium	0/4		
Brain (cortex)	0/3		
Nerve	0/2		
Lymph node	0/6		

a: theca cell, 1 granulosa cell tumour negative

b: reaction restricted to the epithelial part

Lu-5 Reaction pattern on Human Tissues.