

## **Product datasheet for UM870056**

#### OriGene Technologies, Inc.

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### Cytokeratin 7 (KRT7) Mouse Monoclonal Antibody [Clone ID: UMAB161]

### **Product data:**

**Product Type:** Primary Antibodies

Clone Name: UMAB161
Applications: IF, IHC, WB
Recommended Dilution: IHC 1:200
Reactivity: Human
Host: Mouse

**Isotype:** lgG1

Clonality: Monoclonal

**Immunogen:** Human recombinant protein fragment corresponding to amino acids 1-114 and 340-469 of

human KRT7 (NP\_005547) produced in E.coli.

**Formulation:** PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

**Concentration:** 0.5~1.0 mg/ml (Lot Dependent)

**Purification:** Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: Unconjugated

**Storage:** Store at -20°C as received.

**Stability:** Stable for 12 months from date of receipt.

Predicted Protein Size: 51.2 kDa

Gene Name: keratin 7

Database Link: NP 005547

Entrez Gene 3855 Human

P08729





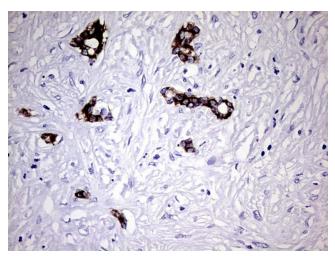
Background:

The protein encoded by this gene is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in the simple epithelia lining the cavities of the internal organs and in the gland ducts and blood vessels. The genes encoding the type II cytokeratins are clustered in a region of chromosome 12q12-q13. Alternative splicing may result in several transcript variants; however, not all variants have been fully described. [provided by RefSeq, Jul 2008]

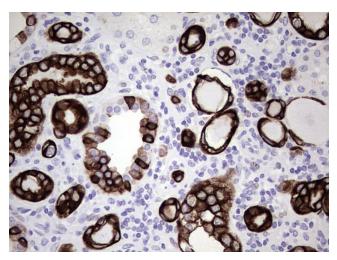
Synonyms: CK7; K2C7; K7; SCL

**Protein Families:** ES Cell Differentiation/IPS

# **Product images:**

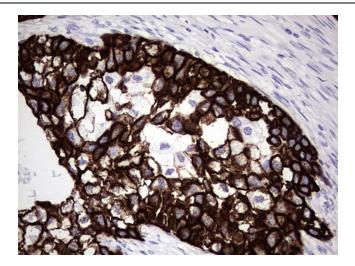


Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human colon tissue using anti-KRT7 mouse monoclonal antibody. ([UM800056], heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min)

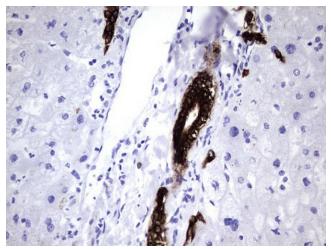


Immunohistochemical staining of paraffinembedded Human Kidney tissue using anti-KRT7 mouse monoclonal antibody. ([UM800056], heatinduced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min)

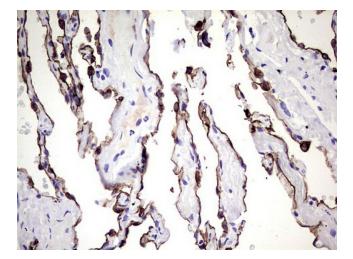




Immunohistochemical staining of paraffinembedded Carcinoma of Human kidney tissue using anti-KRT7 mouse monoclonal antibody. ([UM800056], heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min)

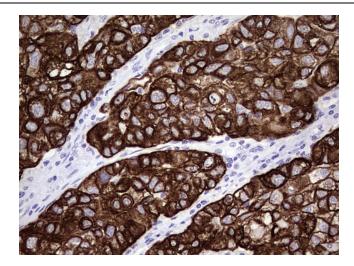


Immunohistochemical staining of paraffinembedded Human liver tissue using anti-KRT7 mouse monoclonal antibody. ([UM800056], heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min)

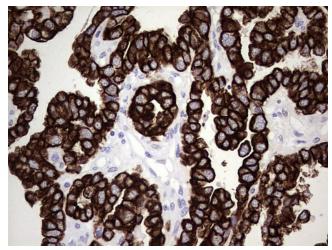


Immunohistochemical staining of paraffinembedded Human lung tissue using anti-KRT7 mouse monoclonal antibody. ([UM800056], heatinduced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min)

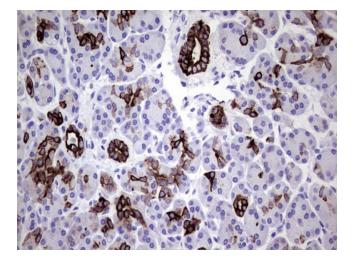




Immunohistochemical staining of paraffinembedded Carcinoma of Human lung tissue using anti-KRT7 mouse monoclonal antibody. ([UM800056], heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min)

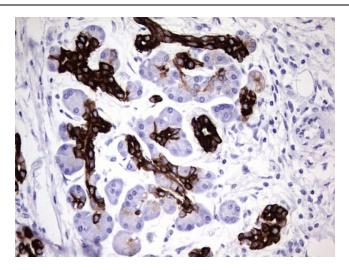


Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human ovary tissue using anti-KRT7 mouse monoclonal antibody. ([UM800056], heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min)

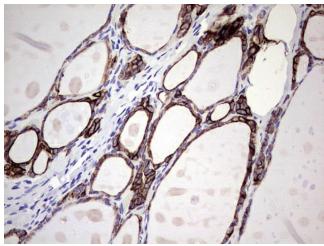


Immunohistochemical staining of paraffinembedded Human pancreas tissue using anti-KRT7 mouse monoclonal antibody. ([UM800056], heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min)

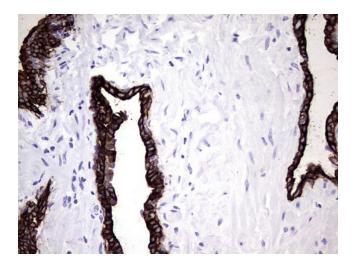




Immunohistochemical staining of paraffinembedded Carcinoma of Human pancreas tissue using anti-KRT7 mouse monoclonal antibody. ([UM800056], heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min)

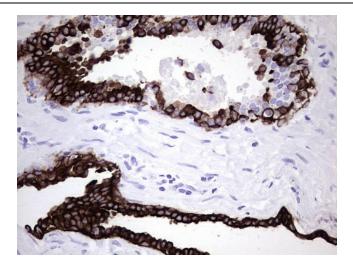


Immunohistochemical staining of paraffinembedded Human thyroid tissue using anti-KRT7 mouse monoclonal antibody. ([UM800056], heatinduced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min)

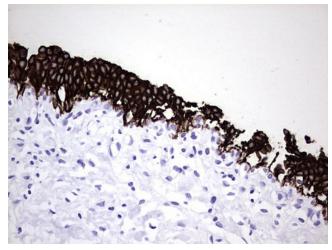


Immunohistochemical staining of paraffinembedded Human prostate tissue using anti-KRT7 mouse monoclonal antibody. ([UM800056], heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min)

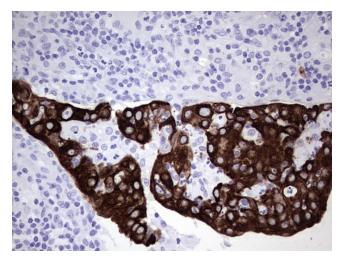




Immunohistochemical staining of paraffinembedded Carcinoma of Human prostate tissue using anti-KRT7 mouse monoclonal antibody. ([UM800056], heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min)

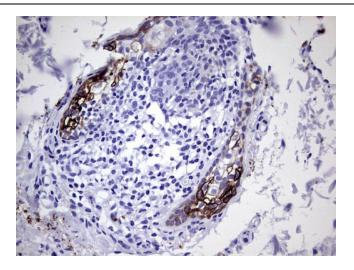


Immunohistochemical staining of paraffinembedded Human bladder tissue using anti-KRT7 mouse monoclonal antibody. ([UM800056], heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min)

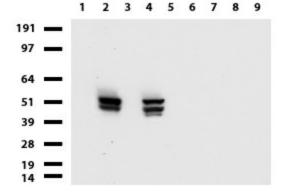


Immunohistochemical staining of paraffinembedded Carcinoma of Human bladder tissue using anti-KRT7 mouse monoclonal antibody. ([UM800056], heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min)

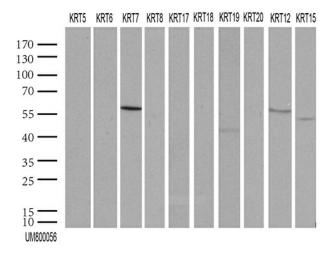




Immunohistochemical staining of paraffinembedded Human skin tissue using anti-KRT7 mouse monoclonal antibody. ([UM800056], heatinduced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min)

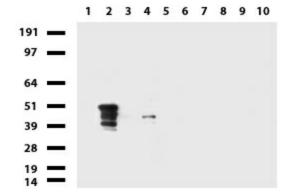


Western blot of cell lysates (35ug) from 9 different cell lines (1: HepG2, 2: HeLa, 3: SV-T2, 4: A549. 5: COS7, 6: Jurkat, 7: MDCK, 8: PC-12, 9: MCF7).

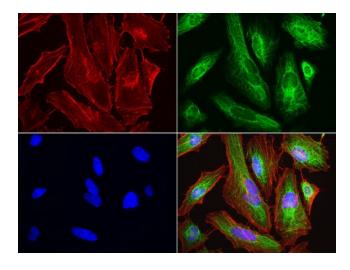


HEK293T were transfected with 55 different plasmids of CK cDNA (1, 2, 4, 5, 6a, 6b, 6c, 7, 8, 9, 12, 13, 14, 15, 16, 17, 18 v1, 18 v2, 19, 20, 24, 25, 26, 27, 28, 31, 32, 33a, 33b, 34, 35, 36, 37, 38, 39, 40, 71, 72 v1, 72 v3, 73, 74, 75, 76, 77, 78, 79, 80 v1, 80 v2, 81, 82, 83, 84, 85, 86 and 222) for 48 hrs and lysed. Cell lysates (5 ug per lane) were separated by SDS-PAGE and blotted with KRT19 antibody. KRT12, 19, 25, 26, 27, 28 and 39 were positive, while all others were negative (1:500).





Western blot of human tissue lysates (15ug) from 10 different tissues (1: Testis, 2: Omentum, 3: Uterus, 4: Breast, 5: Brain, 6: Liver, 7: Ovary, 8: Thyroid, 9: Colon, 10: Spleen). Diluation: 1:500.



Immunofluorescent staining of HeLa cells using anti-KRT7 mouse monoclonal antibody ([UM800056], green, 1:50). Actin filaments were labeled with Alexa Fluor® 594 Phalloidin (red), and nuclear with DAPI (blue).