

## Product datasheet for **CF808338**

### Cytokeratin 16 (KRT16) Mouse Monoclonal Antibody [Clone ID: OTI7A4]

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OTI7A4   |
| Applications:           | IHC, WB  |
| Recommended Dilution:   | WB 1:2000, IHC 1:150   |
| Reactivity:             | Human, Rat   |
| Host:                   | Mouse  |
| Isotype:                | IgG1   |
| Clonality:              | Monoclonal   |
| Immunogen:              | Full length human recombinant protein of human KRT16 (NP_005548) produced in E.coli.   |
| Formulation:            | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)  |
| Reconstitution Method:  | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| 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: | 51.1 kDa   |
| Gene Name:              | keratin 16   |
| Database Link:          | <a href="#">NP_005548</a><br><a href="#">Entrez Gene 303530 RatEntrez Gene 3868 Human P08779</a>   |



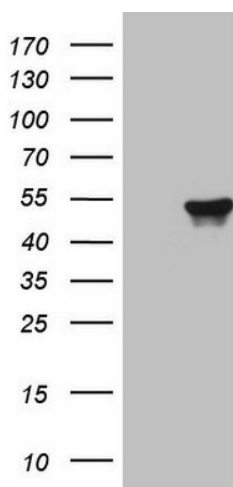
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**Background:**

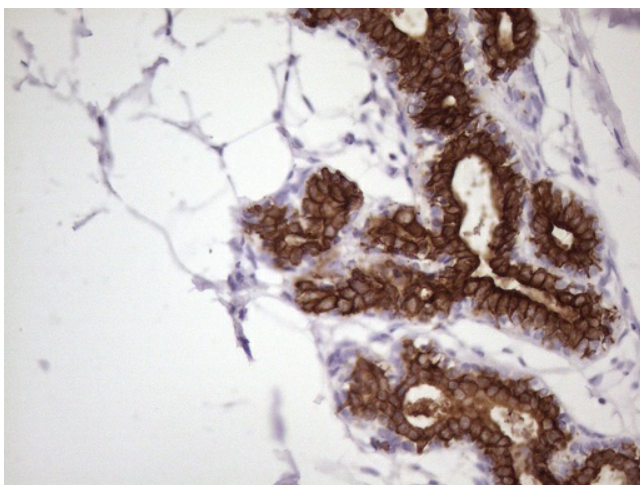
The protein encoded by this gene is a member of the keratin gene family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. Most of the type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains and are clustered in a region of chromosome 17q12-q21. This keratin has been coexpressed with keratin 14 in a number of epithelial tissues, including esophagus, tongue, and hair follicles. Mutations in this gene are associated with type 1 pachyonychia congenita, non-epidermolytic palmoplantar keratoderma and unilateral palmoplantar verrucous nevus. [provided by RefSeq, Jul 2008]

**Synonyms:**

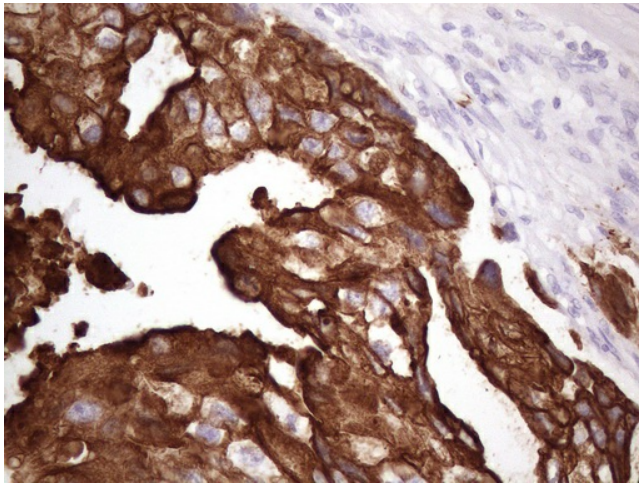
CK16; FNEPPK; K1CP; K16; KRT16A; NEPPK; PC1

**Product images:**


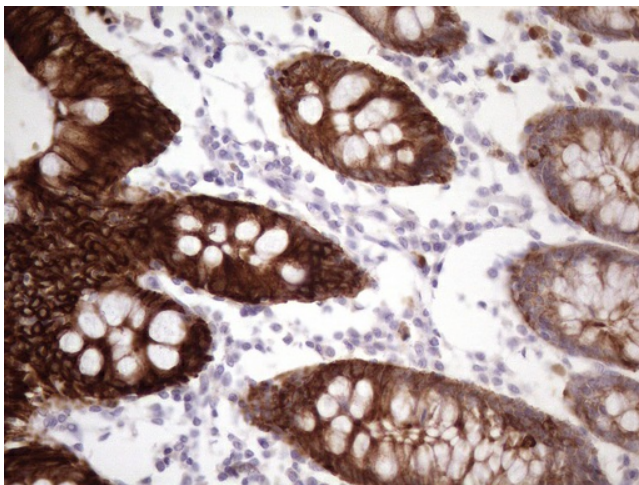
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY KRT16 ([RC204470], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-KRT16 (1:2000). Positive lysates [LY417219] (100ug) and [LC417219] (20ug) can be purchased separately from OriGene.



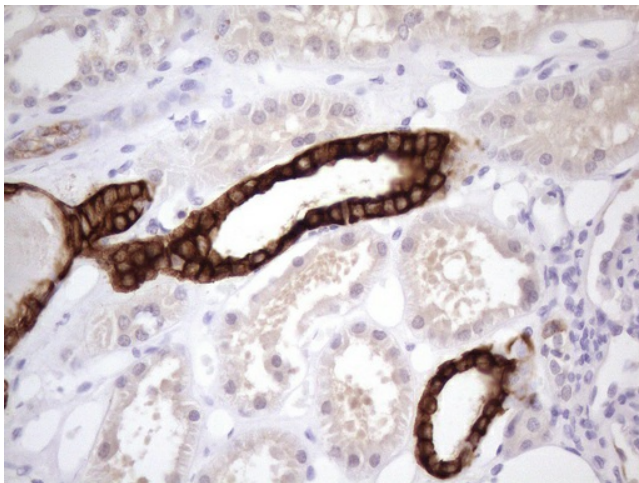
Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-KRT16 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA808338]) (1:150)



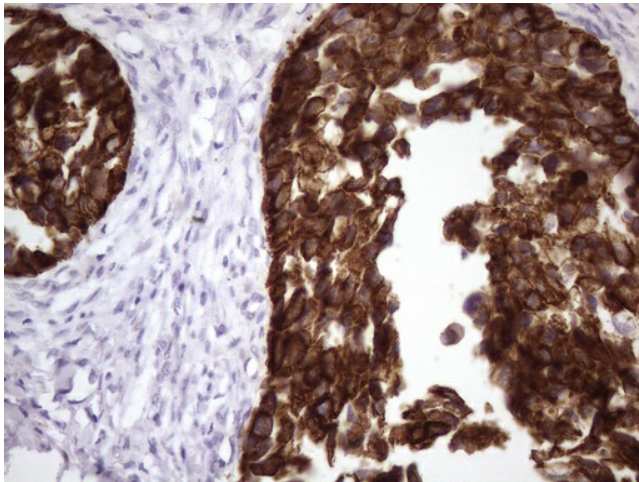
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-KRT16 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA808338]) (1:150)



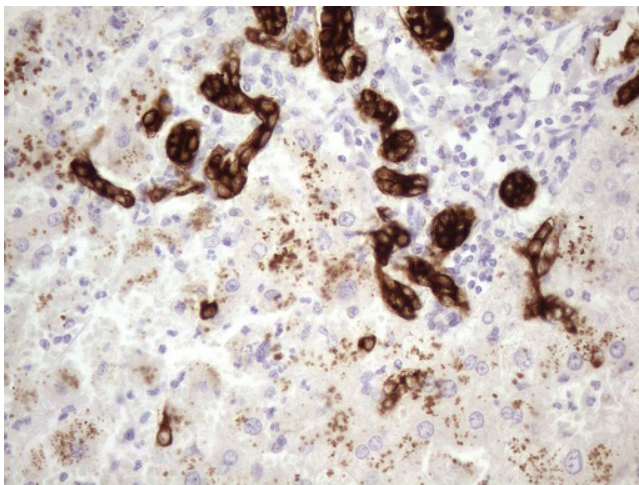
Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-KRT16 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA808338]) (1:150)



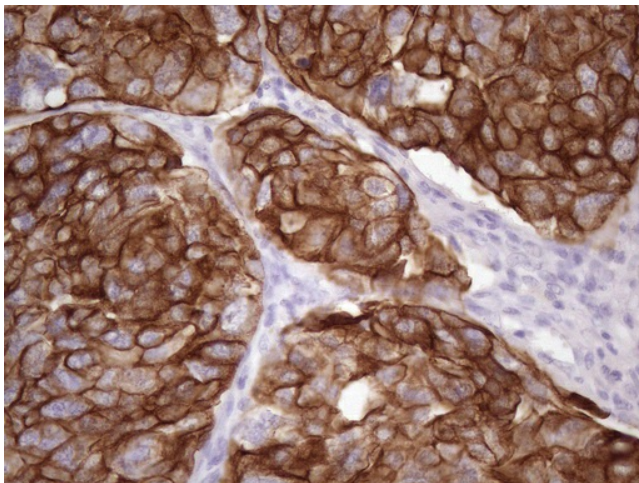
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-KRT16 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA808338]) (1:150)



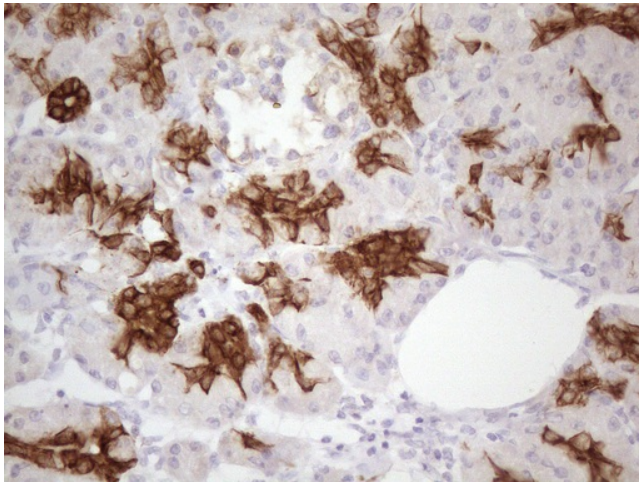
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-KRT16 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA808338]) (1:150)



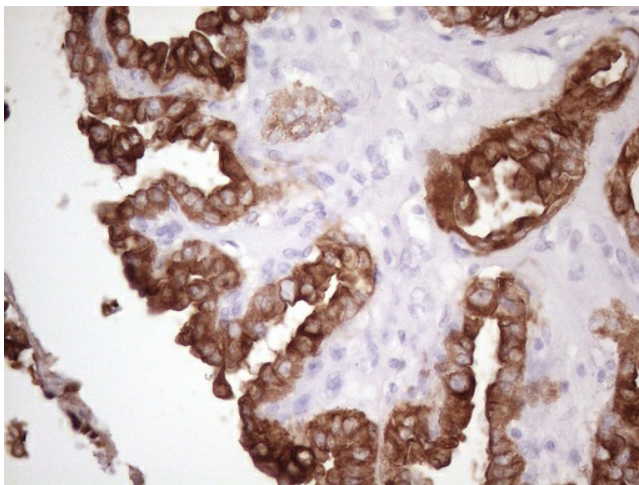
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-KRT16 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA808338]) (1:150)



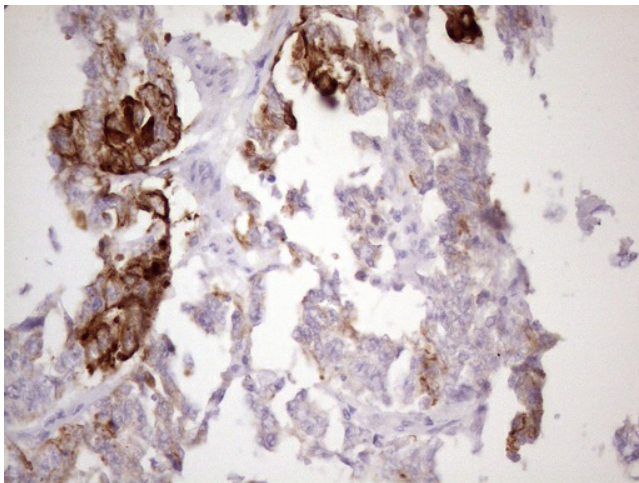
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-KRT16 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA808338]) (1:150)



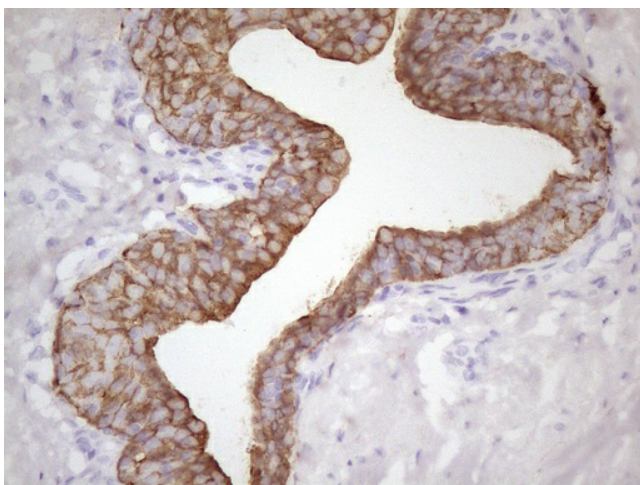
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-KRT16 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA808338]) (1:150)



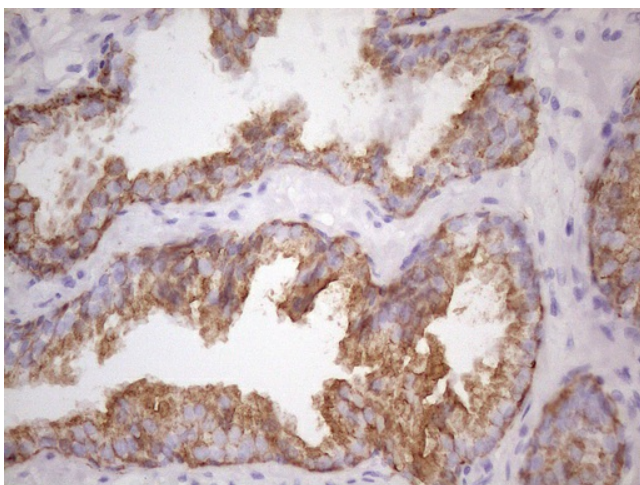
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-KRT16 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA808338]) (1:150)



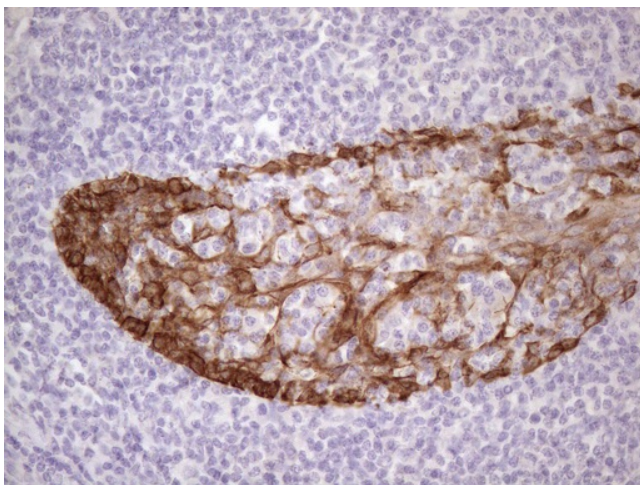
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-KRT16 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA808338]) (1:150)



Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-KRT16 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA808338]) (1:150)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-KRT16 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA808338]) (1:150)



Immunohistochemical staining of paraffin-embedded Human tonsil within the normal limits using anti-KRT16 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA808338]) (1:150)