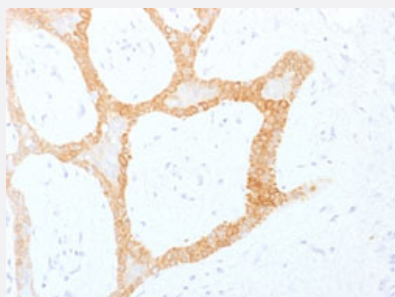


# KRT5/KRT8 monoclonal antibody, clone C-50

Catalog # MAB15238      Size 100 ug

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human colon cancer with KRT5/KRT8 monoclonal antibody, clone C-50 (Cat # MAB15238).

## Specification

|                             |                                                                                                                                                                                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>  | Mouse monoclonal antibody raised against native human KRT5 and KRT8.                                                                                                                                                                                                              |
| <b>Immunogen</b>            | Cytoskeletal preparation from HeLa cells.                                                                                                                                                                                                                                         |
| <b>Host</b>                 | Mouse                                                                                                                                                                                                                                                                             |
| <b>Theoretical MW (kDa)</b> | 58, 52.5                                                                                                                                                                                                                                                                          |
| <b>Reactivity</b>           | Human                                                                                                                                                                                                                                                                             |
| <b>Form</b>                 | Liquid                                                                                                                                                                                                                                                                            |
| <b>Purification</b>         | Protein A/G purification                                                                                                                                                                                                                                                          |
| <b>Isotype</b>              | IgG1, kappa                                                                                                                                                                                                                                                                       |
| <b>Recommend Usage</b>      | Flow Cytometry (0.5-1 ug/10 <sup>6</sup> cells)<br>Immunofluorescence (0.5-1 ug/mL)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL)<br>Western Blotting (0.5-1 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>       | In 10 mM PBS.                                                                                                                                                                                                                                                                     |

**Storage Instruction**

Store at -20 to -80°C.  
Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human colon cancer with KRT5/KRT8 monoclonal antibody, clone C-50 (Cat # MAB15238).

- Immunofluorescence
- Flow Cytometry

## Gene Info — KRT5

|                    |                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">3852</a>                                                                        |
| Protein Accession# | <a href="#">P13647;P05787</a>                                                               |
| Gene Name          | KRT5                                                                                        |
| Gene Alias         | CK5, DDD, EBS2, K5, KRT5A                                                                   |
| Gene Description   | keratin 5                                                                                   |
| Omim ID            | <a href="#">131800</a> <a href="#">131960</a> <a href="#">148040</a> <a href="#">179850</a> |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                   |

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Summary | 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 basal layer of the epidermis with family member KRT14. Mutations in these genes have been associated with a complex of diseases termed epidermolysis bullosa simplex. The type II cytokeratins are clustered in a region of chromosome 12q12-q13. [provided by RefSeq] |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                    |                                                                                                                                                                                                                   |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other Designations | 58 kda cytokeratin epidermolysis bullosa simplex 2 Dowling-Meara/Kobner/Weber-Cockayne types keratin 5 (epidermolysis bullosa simplex, Dowling-Meara/Kobner/Weber-Cockayne types) keratin, type II cytoskeletal 5 |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Gene Info — KRT8

Entrez GeneID [3856](#)

Protein Accession# [P13647;P05787](#)

Gene Name KRT8

Gene Alias CARD2, CK8, CYK8, K2C8, K8, KO

Gene Description keratin 8

Omim ID [148060](#) [215600](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** This gene is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. The product of this gene typically dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells. This protein plays a role in maintaining cellular structural integrity and also functions in signal transduction and cellular differentiation. Mutations in this gene cause cryptogenic cirrhosis. [provided by RefSeq]

**Other Designations** cytokeratin 8|keratin, type II cytoskeletal 8

## Publication Reference

- [A series of 14 new monoclonal antibodies to keratins: characterization and value in diagnostic histopathology.](#)

Bártek J, Vojtěšek B, Stasková Z, Bártková J, Kerekés Z, Rejthar A, Kovarik J.

The Journal of Pathology 1991 Jul; 164(3):215.

Application: IF, WB-Ce, Human, MCF-7, PMC42, A431, HeLa cells

- [Effects of tissue fixation conditions and protease pretreatment on immunohistochemical performance of a large series of new anti-keratin monoclonal antibodies: value in oncopathology.](#)

Bártková J, Bártek J, Lukás Z, Vojtěšek B, Stasková Z, Bursová H, Pavlovská R, Rejthar A, Kovarik J.

Neoplasma 1991 Feb; 38(4):439.

Application: IHC-P, Human, Protease

## Disease

- [Alzheimer disease](#)

- [Brain Ischemia](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cerebral Amyloid Angiopathy](#)
- [Chronic Disease](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Disease Progression](#)
- [Drug-Induced Liver Injury](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis C](#)
- [Inflammatory Bowel Diseases](#)
- [Liver Cirrhosis](#)
- [Liver Failure](#)
- [Melanoma](#)
- [Myocardial Infarction](#)
- [Neuroblastoma](#)
- [Pancreatitis](#)
- [Skin Neoplasms](#)
- [Stroke](#)