

## PRODUCT INFORMATION SHEET

### Mouse Monoclonal Antibody to Cytokeratin 8

Format: PURE      RUO      REF      IQP-1235P      Volume: 100µl



#### Description

|                          |  |
|--------------------------|--|
| <b>Clone</b>             | 8A5D12   |
| <b>Isotype</b>           | Mouse IgG1   |
| <b>Specificity</b>       | Cytokeratin 8  |
| <b>Alternative names</b> | CK8; CYK8; K2C8; KRT8  |
| <b>Species</b>           | Human  |
| <b>Immunogen</b>         | Purified recombinant fragment of human Cytokeratin (aa391-483) expressed in E. Coli. |
| <b>Mw</b>                | 54kDa  |
| <b>Format</b>            | Ascitic fluid containing 0.03% sodium azide.   |

**Summary** Cytokeratin 8, also known as CK8, KRT8, K8. Entrez Protein NP\_002264. It is a member of the type II keratin family. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. It 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.

**Applications** ELISA: 1/10000; WB: 1/500 - 1/2000; IHC: 1/200 - 1/1000; ICC: 1/200 - 1/1000

#### Limitations

1. Conjugates with brighter fluorochromes, like PE and APC, will have a greater separation than those with dyes like FITC and CyQ. When populations overlap, the percentage of positive cells using a selected marker can be affected by the choice of fluorescent label.
2. Use of monoclonal antibodies in patient treatment can interfere with antigen target recognition by this reagent. This should be taken into account when samples are analyzed from patients treated in this fashion. IQ Products has not characterized the effect of the presence of therapeutic antibodies on the performance of this reagent.
3. Reagents can be used in different combinations, therefore laboratories need to become familiar performance characteristics of each antibody in relation with the combined markers in normal and abnormal samples.
4. Reagent data performance is based on EDTA-treated blood. Reagent performance can be affected by the use of other anticoagulants.



#### Handling and Storage

Store the vials at 2-8 °C for a maximum of 2 weeks and store at -20°C for longer term storage. Monoclonal antibodies should be protected from prolonged exposure to light when conjugated with fluorochromes. Reagents are stable for the period shown on the vial label when stored properly.

**Warranty** Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product. IQ Products is not liable for property damage, personal injury, or economic loss caused by the product.

**Characterization** To ensure consistently high-quality reagents, each batch of monoclonal antibody is tested for conformance with characteristics of a standard reagent.












**Warning** All products contain sodiumazide. This chemical is poisonous and hazardous. Handling should be done by trained staff only.

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### References

- 1.Cancer Genet Cytogenet. 2007 Oct 15;178(2):94-103.
  - 2.Cancer Lett. 2008 Jul 8;265(2):188-96.
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### Explanation of used symbols

|   |  |
|---|--|
|    | Consult instructions for use           |
|    | Catalogue number                       |
|    | Sufficient for                         |
|    | Caution, consult accompanying document |
|    | Keep away from (sun)light              |
|    | Biological risks                       |
|   | Temperature limitation (°C)            |
|  | For Research Use Only                  |
|  | Batch code                             |
|  | Use by yyyy-mm-dd                      |
|  | Manufacturer                           |

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|     |             | <b>Label - tandem</b> | <b>Ex -max (nm)</b> | <b>Em -max (nm)</b> |
|-----|-------------|-----------------------|---------------------|---------------------|
| P   | PURE        | purified material     | -                   | -                   |
| F   | FITC        | FITC                  | 488                 | 519                 |
| R   | R-PE        | PE                    | 488, 532            | 578                 |
| C   | CyQ         | PE-Cy5.18             | 488, 532            | 667                 |
| A   | APC         |                       | 595, 633, 635, 647  | 660                 |
| PC  | PerCP       |                       | 488, 532            | 678                 |
| PCC | PerCP-Cy5.5 |                       | 488, 532            | 695                 |

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**IQ Products BV**  
Rozenburglaan 13a  
9727 DL Groningen, The Netherlands

 +31 (0)50 57 57 000  
 +31 (0)50 57 57 002  
 Technical [marketing@iqproducts.nl](mailto:marketing@iqproducts.nl)  
 Orders [orders@iqproducts.nl](mailto:orders@iqproducts.nl)  
 [www.iqproducts.nl](http://www.iqproducts.nl)