Anti-Human PanCK (C11; Ms.IgG1) Technical Data Sheet

Specificity	**Cytokeratins 4, 5, 6, 8, 10, 13, 18**	**Clone**	**C11**
Hybridoma	Mice myeloma cells x Mice spleen cells		
Isotype	IgG_1	**Host**	Mouse
Source and Purification	The antibody is purified from cellular supernatant or ascitic fluid via affinity chromatography (protein A/G); after fluorochrome conjugation, the antibody is purified by means of size exclusion chromatography.		
Storage Buffer	1 ml of PBS pH 7.4 containing 0.5% BSA and 0.1% NaN_3.		
Intended use	The antibody is intended to detect endogenous levels of total cytokeratins, according to customer's protocol. Relevant protocols are available upon request, including troubleshooting.		
Main clinical applications	Detection of cytokeratins 4, 5, 6, 8, 10, 13 and 18. The antibody does not cross-react with other cytokeratins. For Research Use Only - Not for use in diagnostic procedures		

Stability and storage

- Store at 2-8 °C. **Do not freeze!**
- Do not expose the reagent to direct light during storage or incubation with cells. In these conditions the product is stable until the expiration date stated on the vial label. Do not use after the expiration date.
- Use a fresh micropipette tip to take the reagent from the vial to preserve its performance characteristics and to avoid contaminations, which can cause erroneous results. Do not use the reagent if it discolours, or if precipitate forms.
- It is recommended to centrifuge before use.
- The pellet formation after centrifugation is a normal event which does not modify the product performances.

Performance characteristics

Specificity

The antibody reacts with cytokeratins 4, 5, 6, 8, 10, 13 and 18 located in the cytoplasm of a wide variety of human simple epithelium. Human epithelium has been shown to contain cytoplasmic filaments of the cytokeratin type. They have a crucial role in the differentiation and specialization of tissues, and they are also involved in the maintaining of the structure of the epithelial cells.

Sensitivity

The antibody sensitivity is defined by the positive PanCK population resolution from the negative PanCK population, obtained by analysing several antibody concentrations on cell suspensions.

REF Catalogue number	Expiry date	Manufacturer: AcZon Srl Via Lavino 265/D 40050 Monte San Pietro (BO) • Italia Tel: +39 051 00 18 977 info@aczonpharma.com • www.aczonpharma.com
LOT Lot number	Temperature range	
RUO For research use only	Consult instructions for use	

Reproducibility and repeatability

To determine the repeatability of staining with each reagent, samples were stained with different lots of reagents using several cell suspensions.

Limits

When analysing samples, it should be considered that the use of monoclonal antibodies in patient treatment can interfere with recognition of target antigens by this reagent. Using pathological specimens (e.g., leukaemia or lymphomas), it is possible to obtain more information with combined reagents rather than single reagents. Since reagents can be used in different combinations, laboratories need to become familiar with the properties of each antibody in conjunction with other markers in normal and abnormal samples.

Instructions and precautions

The reagent *contains sodium azide,* a toxic and dangerous compound, and should be handled by trained staff only.
H302 – Harmful if swallowed.
EUH032 – Contact with acids liberates very toxic gas.
P102 – Keep out of reach of children.
P270 – Do not eat, drink or smoke when using this product.
P280 – Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician...

The reagent, the biological specimens and materials coming in contact with them are considered biohazards and handled as if capable of transmitting infections. Dispose in accordance with federal, state and local regulations.

Available packages

Form	Quantity	Code	F/P ratio	Tested Application
Purified concentrated	100 µg/1mL	PANCKAMS100H	n.d.	Flow cytometry
FITC ready to use	100 tests/1mL	PANCKBMS100H	3-9	Flow cytometry
R-PE ready to use	100 tests/1mL	PANCKCMS100H	0.5-1.5	Flow cytometry

I. For ready to use formats,10 µl are sufficient to label cell suspensions in 100 µl.
II. See label for lot-specific concentration values.

Only for professional use • MSDS and protocols available on request

References

Gallerani G. et al., *Cancers 2021,* vol. 13,24 6369
Pezzuto A. et al., *Journal of thoracic disease 2018*, vol. 10,7: E570-E576
Maltoni R et al., *Cancer Lett. 2015*, 10;367(1):43-8
Bianchi C et al., *Am J Pathol 2010*, 176(4):1660-70