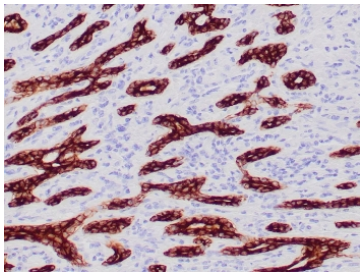
Cytokeratin CAM5.2 Antibody / Cytokeratin 7/8 Antibody [clone CAM5.2] (V5837)

Catalog No.	Formulation	Size
V5837-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5837-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5837SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	CAM5.2
Purity	Protein G affinity
RRID	AB_3759810
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This Cytokeratin CAM5.2 Antibody / Cytokeratin 7/8 Antibody is available for research use only.



Cytokeratin CAM5.2 Antibody Human Breast Carcinoma IHC. Immunohistochemistry staining of FFPE human breast carcinoma tissue was performed with Cytokeratin CAM5.2 Antibody, also called Cytokeratin 7/8 Antibody, using clone CAM5.2. Heat-induced epitope retrieval was performed by boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9, for 20 min followed by cooling. Strong cytokeratin staining is observed in the epithelial tumor structures, with comparatively little staining in the surrounding tissue. This Cytokeratin CAM5.2 Antibody demonstrates low molecular weight cytokeratin expression in human breast carcinoma.

Description

Cytokeratin CAM5.2 Antibody / Cytokeratin 7/8 Antibody is a monoclonal antibody recognizing low molecular weight

cytokeratins expressed by many simple and secretory epithelial cells. The CAM5.2 clone reacts primarily with cytokeratin 8 (CK8/KRT8), with weaker but distinct reactivity with cytokeratin 7 (CK7/KRT7). These intermediate filament proteins have molecular weights of approximately 52 and 48 kDa, respectively, and contribute to the structural organization and mechanical stability of epithelial cells.

CK8 is broadly expressed in simple epithelia and commonly forms intermediate filament networks with other type I keratins. CK7 has a more restricted epithelial distribution and is frequently studied as a marker of epithelial differentiation. The combined reactivity of CAM5.2 produces a characteristic low molecular weight cytokeratin staining profile across numerous epithelial tissues. A Cytokeratin CAM5.2 Antibody can therefore support studies of epithelial identity, differentiation and intermediate filament organization.

CAM5.2 staining is found in many normal secretory and simple epithelial tissues, including hepatocytes and renal tubular epithelium, while stratified squamous epithelium generally shows limited or absent reactivity. This distribution has made CAM5.2 useful for investigating epithelial-derived tumors, including hepatocellular and renal cell carcinomas. Some squamous cell carcinomas may show weak or absent staining, reflecting differences in cytokeratin expression among epithelial tumor types.

An important distinction is that CAM5.2 should not be considered a CK8/CK18-specific antibody. Although CAM5.2 has sometimes been described this way, characterization of the clone supports predominant CK8 recognition with weaker CK7 reactivity rather than CK18 recognition. This distinction is important when interpreting CAM5.2 staining or comparing it with antibodies specifically targeting CK8, CK18 or CK8/CK18 complexes.

NSJ Bioreagents offers Cytokeratin CAM5.2 Antibody for investigating low molecular weight cytokeratin expression in normal and malignant epithelial tissues. A Cytokeratin 7/8 Antibody can support research into epithelial differentiation, carcinoma biology and changes in intermediate filament expression associated with tumor development.

Researchers studying low molecular weight cytokeratin expression can explore our Cytokeratin 8 Antibody page for additional reagents targeting CK8/KRT8 in epithelial and carcinoma research.

Researchers investigating epithelial differentiation can also explore our Cytokeratin 7 Antibody page for additional reagents targeting CK7/KRT7, a secondary cytokeratin recognized by the CAM5.2 clone.

Application Notes

Optimal dilution of the Cytokeratin CAM5.2 Antibody / Cytokeratin 7/8 Antibody should be determined by the researcher.

Immunogen

The human colorectal carcinoma cell line HT29 was used as the immunogen for the was used as the immunogen for the Cytokeratin CAM5.2 antibody.

Storage

Aliquot the Cytokeratin CAM5.2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Cytokeratin CAM5.2 antibody, Cytokeratin 7/8 antibody, CAM5.2 antibody, Low Molecular Weight Cytokeratin antibody, LMW Cytokeratin antibody, Cytokeratin 8 antibody, CK8 antibody, Cytokeratin 7 antibody, CK7 antibody

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