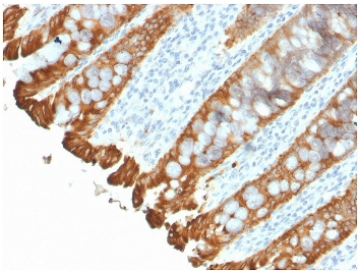
Recombinant Cytokeratin 8/18 Antibody [clone KRT8.18/2297R] (V8405)

Catalog No.	Formulation	Size
V8405-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8405-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8405SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

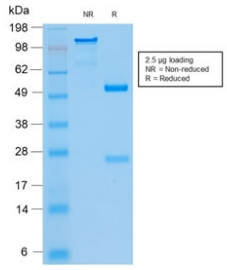
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	KRT8.18/2297R
Purity	Protein A affinity chromatography
UniProt	P05787; P05783
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This recombinant Cytokeratin 8/18 antibody is available for research use only.



IHC staining of FFPE human colon with recombinant Cytokeratin 8/18 antibody (clone KRT8.18/2297R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free recombinant Cytokeratin 8/18 antibody (clone KRT8.18/2297R) as confirmation of integrity and purity.

Description

Recombinant Cytokeratin 8/18 antibody detects cytokeratins 8 and 18, type II and type I intermediate filament proteins encoded by the KRT8 and KRT18 genes. These proteins are co-expressed in simple epithelial tissues, forming obligate heteropolymers that provide structural integrity and resilience. Because cytokeratin 8 and cytokeratin 18 are widely used as epithelial lineage markers and indicators of tissue pathology, Recombinant Cytokeratin 8/18 antibody is an important tool in oncology, pathology, and epithelial biology.

Cytokeratin 8 is a type II keratin, while cytokeratin 18 is a type I keratin. Together they form filament networks that stabilize epithelial cells against mechanical stress. Beyond structural roles, these proteins participate in apoptosis, signal transduction, and cell cycle regulation. Aberrant expression of keratins 8 and 18 has been linked to carcinomas, liver disease, and inflammatory conditions, making them valuable diagnostic and prognostic biomarkers.

The Recombinant Cytokeratin 8/18 antibody clone KRT8.18/2297R provides reproducible and specific recognition of both keratins. Recombinant technology ensures lot-to-lot uniformity, which is critical for long-term studies. Clone KRT8.18/2297R has been cited in peer-reviewed studies investigating liver pathology, breast carcinoma, and epithelial differentiation. Its applications include immunohistochemistry, Western blotting, and cytological analysis.

Research using clone KRT8.18/2297R has shown how cytokeratins 8 and 18 are upregulated in carcinomas compared to normal tissues, providing diagnostic discrimination from non-epithelial tumors. In hepatology, these keratins are released into the serum during cell injury, and their detection has been associated with progression of liver disease. In oncology, keratin 8 and 18 staining is a standard component of panels that identify epithelial tumor origin, supporting accurate pathology classification.

NSJ Bioreagents supplies this Recombinant Cytokeratin 8/18 antibody to support oncology, pathology, and epithelial research. Alternate names include KRT8 antibody, KRT18 antibody, keratin type II cytoskeletal 8 antibody, keratin type I cytoskeletal 18 antibody, simple epithelial keratin antibody, and epithelial intermediate filament antibody.

Immunohistochemical staining with this MAb is indistinguishable from that obtained with monoclonal antibody 5D3.

Application Notes

Optimal dilution of the recombinant Cytokeratin 8/18 antibody should be determined by the researcher.

Immunogen

Recombinant full-length human KRT8/18 protein was used as the immunogen for the recombinant Cytokeratin 8/18 antibody.

Storage

Store the recombinant Cytokeratin 8/18 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).