

DESCRIPTION

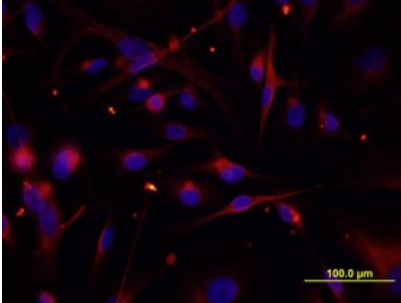
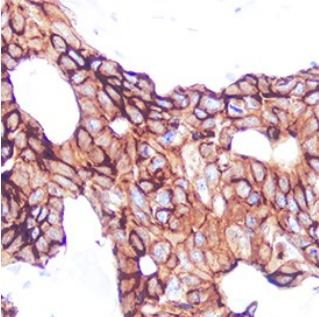
Species Reactivity	Human
Specificity	Detects human Cytokeratin 19.
Source	Monoclonal Mouse IgG ₁ Clone # BA17
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mammary organoids
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	See Below
Immunohistochemistry	5-25 µg/mL	See Below
Western Blot	Bartek J. <i>et al.</i> (1985) <i>Int J Cancer</i> . 36(3) :299. This application was not tested by R&D Systems.	

DATA

Immunocytochemistry	Immunohistochemistry
 <p>Cytokeratin 19 in MDA-MB-231 Human Cell Line. Cytokeratin 19 was detected in immersion fixed MDA-MB-231 human breast cancer cell line using Mouse Anti-Human Cytokeratin 19 Monoclonal Antibody (Catalog # MAB3506) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # Catalog # NL007) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>	 <p>Cytokeratin 19 in Human Breast Cancer Tissue. Cytokeratin 19 was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using Mouse Anti-Human Cytokeratin 19 Monoclonal Antibody (Catalog # MAB3506) at 5 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to cell membranes of cancer cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Cytokeratin 19, a type I intermediate filament protein, is the smallest known acidic cytokeratin. The degree of keratin 19 positivity in breast cancer distinguishes malignant from benign tumours.