

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
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

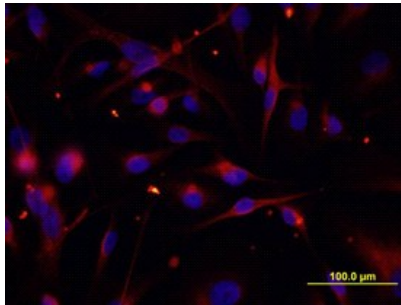
APPLICATIONS

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.	

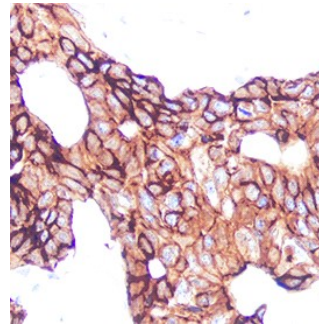
DATA

Immunocytochemistry



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 # NL007) and counterstained with DAPI (blue). View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

Immunohistochemistry



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 # 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](#).

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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <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.