Product Datasheet

Anti-Cytokeratins Purified (orb43707)

Description	Mouse monoclonal antibody to pan Cytokeratin
Reactivity	Mammal
Conjugation	Unconjugated
Tested Applications	FC, ICC, IHC-P, IP, WB
Immunogen	Keratin-enriched preparation from human epidermoid carcinoma cell line A431.
Target	Cytokeratins
Preservatives	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Concentration	1 mg/ml
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	Flow cytometry: Recommended dilution: 1 µg/ml. Intracellular staining.Immunohistochemistry: Recommended dilution: 2-8 µg/ml.Western blotting: Recommended dilution: 1-2 µg/ml.
Isotype	Mouse IgG1
Clonality	Monoclonal
Clone Number	C-11
Antibody Type	Primary Antibody
Purity	Purified by protein-A affinity chromatography.
Expiration Date	12 months from date of receipt.

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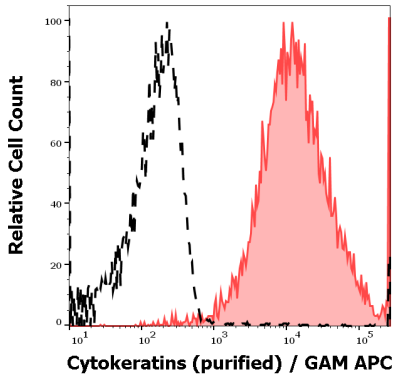
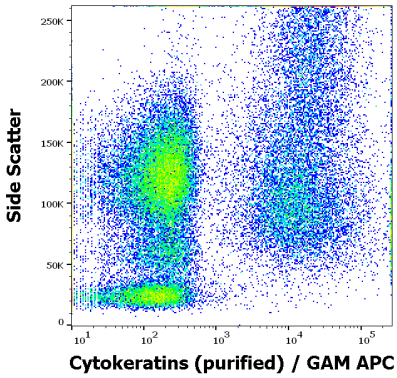
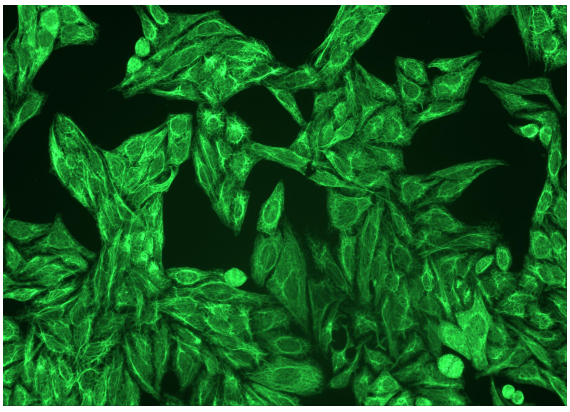


Separation of MCF-7 cells (red-filled) from human leukocytes (black-dashed) in flow cytometry analysis (intracellular staining) of peripheral whole blood spiked with MCF-7 cells stained using anti-Cytokeratins (C-11) purified antibody (concentration in sample 3 µg/ml, GAM APC).



Flow cytometry intracellular staining pattern of human peripheral whole blood spiked with MCF-7 cells stained using anti-Cytokeratins (C-11) purified antibody (concentration in sample 3 µg/ml, GAM APC).



Immunocytochemistry staining of cytokeratins in Hep-2 cells using pan-cytokeratin antibody C-11 (orb43707, diluted 1:400), detected with GAM IgG-Alexa Fluor®488 (diluted 1:200; green).

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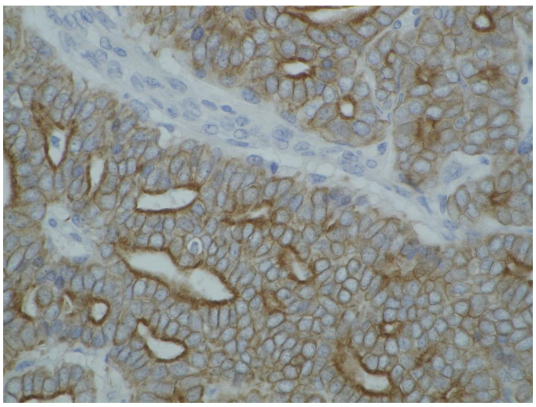
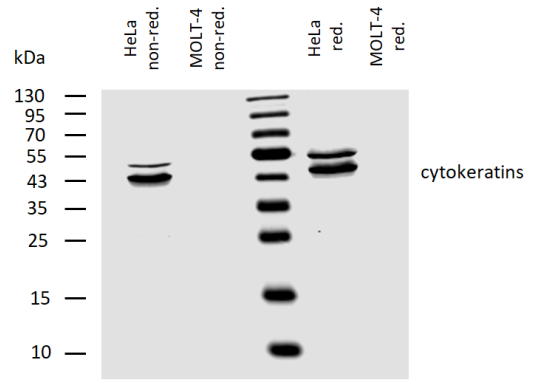
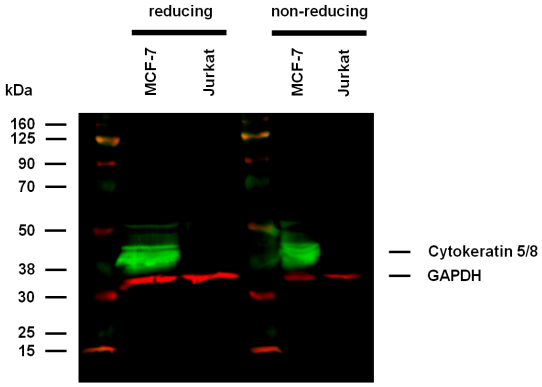


Immunohistochemistry staining of cytokeratin on paraffin-embedded sections of guinea pig breast carcinoma using anti-cytokeratin antibody (C-11).



Western blotting analysis of human cytokeratins using mouse monoclonal antibody C-11 on lysates of HeLa cell line and MOLT-4 cell line (cytokeratin non-expressing cell line; negative control) under non-reducing and reducing conditions. Nitrocellulose membrane was probed with 2 µg/ml of mouse monoclonal antibody anti-cytokeratins followed by IRDye800-conjugated anti-mouse secondary antibody. Specific bands were detected for cytokeratins at approximately 45-55 kDa.



Anti-Hu Cytokeratin 5/8 (clone C-50) works in WB application under reducing and non-reducing conditions. Western blotting analysis was performed on whole cell extracts (RIPA lysis buffer) of MCF-7 and Jurkat cell lines, mixed and heated (100°C, 5 min) with reducing and non-reducing SDS-loading buffer. Samples were resolved using 10% Tris-glycine SDS gel electrophoresis. Nitrocellulose membrane blot was probed with mouse IgG1 monoclonal antibody C-50 (1 µg/ml), followed by IRDye 800CW Goat-anti-Mouse IgG (green). Mouse anti-GAPDH monoclonal antibody FF26A conjugated with DyLight 680 (0.1 µg/ml), was used as the loading control (red). Multiplex fluorescent Western blot detection was performed. Cytokeratin 5/8 molecules were detected at ~40 kDa in MCF-7 cell line under both reducing and non-reducing conditions.

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