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30-1043: Anti-Cytokeratin (Pan-reactive) Monoclonal Antibody (Clone:C-11)

Clonality :	Monoclonal
Clone Name :	C-11
Application :	WB
Format :	Purified
Isotype :	Mouse IgG1
Immunogen Information :	Keratin-enriched preparation from human epidermoid carcinoma cell line A431.

Description

Cytokeratins are a subfamily of intermediate filaments and characterized by remarkable biochemical diversity. Cytokeratins are represented in epithelial tissues by at least 20 different polypeptides, molecular weight between 40 kDa and 68 kDa. The individual cytokeratin polypeptides are designated 1 to 20 and divided into the type I (acidic cytokeratins 9-20) and type II (basic to neutral cytokeratins 1-8) families.

Product Info

Amount :	0.1 mg
Purification :	Purified by protein-A affinity chromatography
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow cytometry: Recommended dilution: 1 Î¼g/ml. Intracellular staining.
Immunohistochemistry: Recommended dilution: 2-8 Î¼g/ml.
Western blotting: Recommended dilution: 1-2 Î¼g/ml.

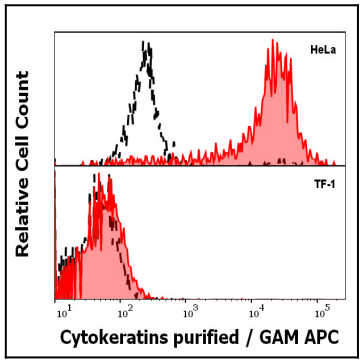

Figure-1: Anti-Hu Cytokeratins purified antibody (clone C-11) specificity verification by flow cytometry Anti-Cytokeratins (C-11) purified antibody (concentration in sample 0.3 µg/ml, GAM APC, red-filled histogram) binds specifically to intracellular cytokeratins in permeabilized HeLa cells (upper panel), but does not stain permeabilized TF-1 cells (lower panel). Level of non-specific binding was assessed using cells unstained by primary antibody (GAM APC, black-dashed histogram).

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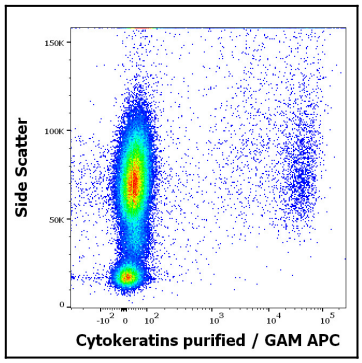

Figure-2: Flow cytometry intracellular staining pattern of human peripheral whole blood spiked with HeLa cells stained using anti-Cytokeratins (C-11) purified antibody (GAM APC, concentration in sample 0.3 µg/ml).

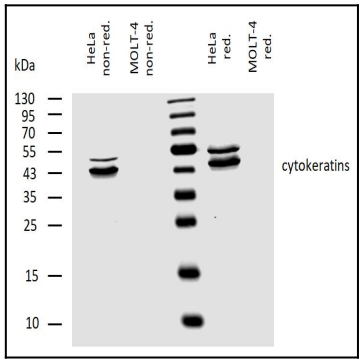

Figure-3: Western blotting analysis of human cytokeratins using mouse monoclonal antibody C-11 on lysates of HeLa cell line and MOLT-4 cell line (cytokeratin non-expressing cell line; negative control) under non-reducing and reducing conditions. Nitrocellulose membrane was probed with 2 µg/ml of mouse monoclonal antibody anti-cytokeratins followed by IRDye800-conjugated anti-mouse secondary antibody. Specific bands were detected for cytokeratins at approximately 45-55 kDa.