Pan Cytokeratin Antibody [clone AE-1 + AE-3] (V2330FITC)

Catalog No.	Formulation	Size
V2330FITC-100T	500 ul at 0.1 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 Tests

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	FITC Conjugate
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	AE-1 + AE-3
Purity	Protein G affinity chromatography
Localization	Cytoplasmic
Applications	Flow Cytometry : 5ul per test per one 10^6 cells in 0.1ml or 5ul per 100ul of whole blood Immunofluorescence : 1:50-1:100
Limitations	This Pan Cytokeratin antibody is available for research use only.

Description

Pan Cytokeratin antibody FITC conjugate clones AE1 + AE3 combine broad-spectrum cytokeratin detection with direct conjugation to fluorescein isothiocyanate, producing strong green fluorescence. This conjugated format allows rapid and direct identification of epithelial cells without secondary antibodies, making it highly efficient for multicolor fluorescence-based experiments. NSJ Bioreagents supplies Pan Cytokeratin antibody FITC conjugate clones AE1 + AE3 for reliable detection of epithelial markers in immunology, oncology, and developmental biology.

Pan Cytokeratin antibody FITC conjugate clones AE1 + AE3 provide comprehensive coverage of acidic and basic

keratins, ensuring broad recognition of epithelial cells in diverse tissues. The FITC conjugation offers bright green signals suitable for flow-based studies, fluorescence microscopy, and imaging assays.

In pathology and oncology, this conjugated antibody is useful for identifying epithelial tumor cells within mixed cell populations, including detection of disseminated carcinoma cells in lymph nodes or bone marrow aspirates. Researchers also use it to evaluate tumor heterogeneity and epithelial-mesenchymal transitions during cancer progression.

In cell biology, Pan Cytokeratin antibody FITC conjugate clones AE1 + AE3 are applied in organoid systems and stem cell differentiation assays, where they reveal epithelial lineage development. The green fluorescence simplifies multiplex studies where epithelial markers need to be combined with other fluorophore-conjugated antibodies.

Technically, the FITC conjugation reduces assay steps by eliminating secondary antibodies, while providing stable and bright fluorescence. This efficiency makes it suitable for high-throughput and multicolor analysis. Alternate names include epithelial cytokeratin antibody FITC, broad-spectrum cytokeratin antibody FITC, and carcinoma marker antibody FITC.

This pan keratin antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include CK1, CK3-6, CK8, CK10, CK14-16, and CK19.

Application Notes

Optimal dilution of the Pan Cytokeratin antibody should be determined by the researcher.

Immunogen

Human epidermal keratin was used as the immunogen for this Pan Cytokeratin antibody.

Storage

Store the Pan Cytokeratin antibody at 2-8oC, protected from light.