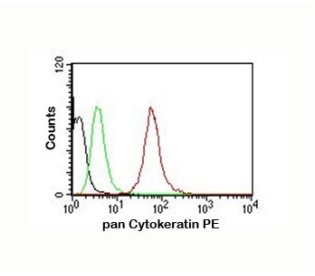
Pan Cytokeratin Antibody Cocktail PE Conjugate [clone AE1 + AE3] (V2330PE)

Catalog No.	Formulation	Size
V2330PE-100T	500 ul at 0.1 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 Tests

Citations (13)

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	PE Conjugate
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	AE1 + AE3
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Gene ID	3848 (K1); 3850 (K3); 3851 (K4); 3852 (K5); 3853 (K6A); 3856 (K8);3858 (K10); 3861 (K14); 3866 (K15); 3868 (K16); 3880 (K19)
Localization	Cytoplasmic
Applications	Flow Cytometry : 5ul/test/million cells or 5ul/test/100ul of whole blood Immunofluorescence : 1:50-1:100 for 30 minutes at RT (1)
Limitations	This **pan Cytokeratin antibody AE1 + AE3** is available for research use only.



FACS testing of MCF-7 cells: Black=cells alone; Green=isotype control; Red= pan Cytokeratin antibody

Description

Pan Cytokeratin antibody PE conjugate clones AE1 + AE3 provide broad cytokeratin detection with conjugation to phycoerythrin, producing strong red-orange fluorescence. This dual-clone combination ensures recognition of a wide

spectrum of acidic and basic keratins, while the PE dye delivers intense brightness suitable for flow cytometry, fluorescence microscopy, and multicolor imaging. NSJ Bioreagents offers Pan Cytokeratin antibody PE conjugate clones AE1 + AE3 for efficient identification of epithelial cells in cancer, developmental biology, and regenerative studies.

Pan Cytokeratin antibody PE conjugate clones AE1 + AE3 are commonly used to confirm epithelial origin in tumor samples and to detect epithelial cells within mixed populations. In oncology, this antibody has been applied to studies of circulating tumor cells, where its high sensitivity allows detection of rare epithelial-derived cells in blood.

The antibody is also used in profiling micrometastatic disease, where visualization of single epithelial cells in sentinel nodes or distant sites provides evidence of cancer spread. The PE conjugation enhances sensitivity in these contexts, as its high quantum yield produces strong and reproducible fluorescent signals.

In epithelial biology, Pan Cytokeratin antibody PE conjugate clones AE1 + AE3 support studies of epithelial structure, differentiation, and regeneration. The broad detection range ensures accurate identification of epithelial cells in developmental models, organoids, and engineered tissues.

PE conjugation offers significant advantages for multicolor flow panels and fluorescence-based imaging. Its brightness allows clear detection even when expressed at moderate levels, complementing other fluorophore-conjugated antibodies in multiplex studies.

Validated for fluorescence-based applications, Pan Cytokeratin antibody PE conjugate clones AE1 + AE3 consistently deliver strong cytoplasmic signals. Alternate names include epithelial cytokeratin antibody PE conjugate, broad-spectrum cytokeratin antibody PE, and carcinoma marker antibody PE.

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

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the pan Cytokeratin antibody AE1 + AE3 to be titered up or down for optimal performance.

Immunogen

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

Storage

Store the pan Cytokeratin antibody at 2-8oC. Conjugate is light sensitive, store in the dark.

References (2)