
Anti-Pan Cytokeratin (AE1/AE3) eFluor[®] 615

Catalog Number: 42-9003

Also known as: keratin

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Pan Cytokeratin (AE1/AE3)
eFluor[®] 615



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Clone: AE1/AE3

Concentration: 0.2 mg/mL

Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial



Description

The monoclonal antibodies AE1 and AE3 recognize many of the acidic and basic cytokeratin family members. Cytokeratins are intermediate filament proteins comprising one component of the cytoskeleton. There are two large families of cytokeratins, acidic and basic, but all contain the same basic domains (i.e. an alpha-helical core with an N- and C-terminal domain). The proteins are expressed in epithelial cells, but are developmentally regulated. Many tumors also express these proteins and their expression can help identify the origin of a neoplasm.

The AE3 monoclonal antibody recognizes the 65 to 67 triplet, 64, 59, 58, 56, and 52kD proteins also known as cytokeratin 1, 2, 3, 4, 5, 6, 7, while the AE1 antibody recognizes 56.5, 50, 50', 48, and 40 kDa proteins (also known as CK10, 14, 15, 16 and 19). These antibodies can be used on a wide array of tissue samples from mouse, human, rat, primates (cynomolgus and rhesus), dog, cat, rabbit, and chicken.

Applications Reported

This AE1/AE3 antibody has been reported for use in immunocytochemical (ICC) and immunohistochemical (IHC-F) staining.

Applications Tested

This AE1/AE3 antibody has been tested by immunocytochemistry on fixed MCF7 cells at less than or equal to 5 ug/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. This product has not been validated for flow cytometric analysis.

Filter Recommendation: When using this eFluor[®] 615 antibody conjugate, we recommend a filter that will capture the 615 emission wavelength (for example, Excitation 560/55, 585LP, Emission 645/75). A standard Alexa Fluor[®] 594 filter is acceptable.

References

Sato T, Maeda H, Suzuki A, Shibuya H, Sakata A, Shirai W. Endometrial stromal sarcoma with smooth muscle and glandular differentiation of the feline uterus. *Vet Pathol.* 2007 May;44(3):379-82. (AE1/AE3, IHC, feline)

Chen SS, Revoltella RP, Papini S, Michelini M, Fitzgerald W, Zimmerberg J, Margolis L. Multilineage differentiation of rhesus monkey embryonic stem cells in three-dimensional culture systems. *Stem Cells.* 2003;21(3):281-95. (AE1/AE3, IHC, rhesus)

Woodcock-Mitchell J, Eichner R, Nelson WG, Sun TT. Immunolocalization of keratin polypeptides in human epidermis using monoclonal antibodies. *J Cell Biol.* 1982 Nov;95(2 Pt 1):580-8. (AE1 and AE3, WB, IHC)

Tseng SC, Jarvinen MJ, Nelson WG, Huang JW, Woodcock-Mitchell J, Sun TT. Correlation of specific keratins with different types of epithelial differentiation: monoclonal antibody studies. *Cell.* 1982 Sep;30(2):361-72.

Related Products

00-4953 IHC /ICC Blocking Buffer - Low Protein

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00-4954 20X TBS Wash Buffer for IHC/ICC

00-4958 Fluoromount-G™

42-4714 Mouse IgG1 K Isotype Control eFluor® 615 (P3.6.2.8.1)

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