Anti-Human Epithelial Cell Antibody, Clone 5E11.3.1, FITC

Antibodies

Mouse monoclonal IgG1 antibody against human epithelial cells, FITC-conjugated

Catalog #60147FI 100 Tests 20 µL/test

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Product Description

The 5E11.3.1 antibody reacts with an unidentified marker expressed on the surface of most luminal cells of normal human mammary epithelium. Weak labeling (or no labeling) is observed within the basal cell compartment of the mammary epithelium. The 5E11.3.1 antibody gives variable labeling on malignant breast epithelium. Positive labeling is observed on the following cell lines: MCF7, CAMA, T47D, BT-10, BT-20, COLO 205, and WiDr. Labeling is negative on human bone marrow cells, blood cells, lymphoid and mesenchymal tissues, mammary and marrow fibroblast cultures, and human embryonic stem cell line H9.

Target Antigen Name:	Human epithelial cells
Alternative Names:	Not applicable
Gene ID:	4072
Species Reactivity:	Human
Host Species:	Mouse (BALB/c)
Clonality:	Monoclonal
Clone:	5E11.3.1
Isotype:	IgG1, kappa
Immunogen:	Human mammary carcinoma cell line T47D
Conjugate:	FITC (Fluorescein isothiocyanate)

Applications

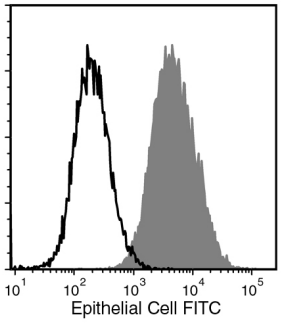
Verified:	FC
Reported:	FACS, FC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Direct CTC Enrichment Kit (Catalog #19657) and EasySep™ Human EpCAM Positive Selection Kit II (Catalog #17846).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered saline containing 0.1% bovine serum albumin and < 0.1% sodium azide
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	For flow cytometry, the suggested use of this antibody is 20 µL per 1 x 10^6 cells in 100 µL. The antibody also works well on paraffin sections; however, a heat-induced antigen retrieval protocol is required for optimal staining of formalin-fixed paraffin-embedded tissues. It is recommended that the antibody be titrated for optimal performance for each application.

Data



Flow cytometry analysis of human MCF7 cells labeled with Anti-Human Epithelial Cell Antibody, Clone 5E11.3.1, FITC (filled histogram) or Mouse IgG1, kappa Isotype Control Antibody, Clone MOPC-21, FITC (Catalog #60070FI) (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

1. Tornillo G et al. (2018) Dual mechanisms of LYN kinase dysregulation drive aggressive behavior in breast cancer cells. Cell Rep 25(13): 3674–3692.e10.(FC)
2. Aupet S et al. (2013) Isolation of viable human hepatic progenitors from adult livers is possible even after 48 hours of cold ischemia. Tissue Eng Part C Methods 19(7): 497–506. (FC)
3. Kryczek I et al. (2009) Phenotype, distribution, generation, and functional and clinical relevance of Th17 cells in the human tumor environments. Blood 114(6): 1141–9. (FC, IF, IHC)
4. Bardy P et al. (1997) Isolation and analysis of different subpopulations of normal human breast epithelial cells after their infection with a retroviral vector encoding a cell surface marker. Breast Cancer Res Treat 44(2): 153–65. (FACS, FC)