

Product Datasheet

Fibroblasts/Epithelial cells Antibody (D7-FIB) - BSA Free NB600-777

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB600-777

Fibroblasts/Epithelial cells Antibody (D7-FIB) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	D7-FIB
Preservative	0.09% Sodium Azide
Isotype	IgG2a
Purity	Protein A purified
Buffer	PBS
Product Description	
Description	Mouse anti Human Fibroblasts/Epithelial Cells antibody, clone D7-FIB recognizes a ~112kDa molecule expressed on the cell surface of human fibroblasts. The antigen is not expressed by peripheral blood cells, and is found at low levels on a minority of melanoma cell lines. Studies upon the antigen have shown it to be sensitive to SDS, but resistant to trypsin, tunicamycin and collagenase. D7-FIB has also been found to bind to epithelium, myoepithelium, smooth muscle and some leucocytes. D7-FIB is useful as a cell membrane marker to characterize chondrocyte differentiation giving a positive reaction with dedifferentiated human chondrocytes, and negative with differentiated chondrocytes (van Osch et al. 2001).
Host	Mouse
Species	Human
Specificity/Sensitivity	NB600-777 recognizes a 112kD molecule expressed on the cell surface of human fibroblasts and epithelial cells. In peripheral blood the antibody stains myeloid cells and a very small number of lymphocytes. Studies upon the antigen have shown it to be sensitive to SDS, but resistant to trypsin, tunicamycin and collagenase. In immunohistological studies the antibody has also been found to bind to epithelium, myoepithelium, smooth muscle and some leucocytes. D7-FIB has been shown to be useful as a cell membrane marker to characterize chondrocyte differentiation giving a positive reaction with dedifferentiated human chondrocytes, and negative with differentiated chondrocytes (3). This product is routinely tested in flow cytometry on the KG1 cell line.
Immunogen	Human foreskin fibroblasts
Product Application Details	
Applications	Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Immunohistochemistry-Paraffin (Negative)
Recommended Dilutions	Flow Cytometry 1:50-1:200, Immunohistochemistry, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Frozen 1:100, Immunohistochemistry-Paraffin (Negative)

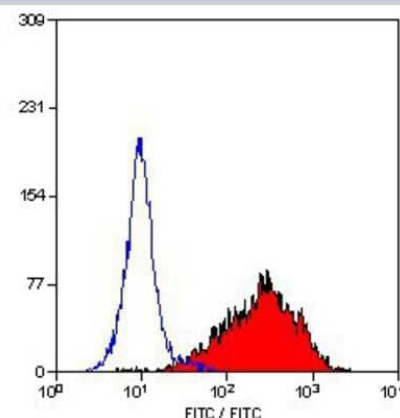


Application Notes

Flow Cytometry: Use 10 ul of the suggested working dilution to label 10^6 cells in 100 ul. The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. The use of acetone fixation for frozen sections is recommended. This antibody does not work in Immunohistochemistry-Paraffin. Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID 27416040).

Images

Flow Cytometry: Fibroblasts/Epithelial cells Antibody (D7-FIB) [NB600-777] - Fibroblast Marker Staining of KG1 cells.

**Publications**

GrubiSic V, McClain JL, Fried DE et al. Enteric Glia Modulate Macrophage Phenotype and Visceral Sensitivity following Inflammation Cell Rep 2020-09-08 [PMID: 32905782]

Linan-Rico A, Turco F, Ochoa-Cortes F et al. Molecular Signaling and Dysfunction of the Human Reactive Enteric Glial Cell Phenotype: Implications for GI Infection, IBD, POI, Neurological, Motility, and GI Disorders Inflamm. Bowel Dis. 2016-08-01 [PMID: 27416040] (ICC/IF)



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Products Related to NB600-777

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)
NB600-777UV	Fibroblasts/Epithelial cells Antibody (D7-FIB) [DyLight 350]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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