lacto-N-fucopentaose I antibody [R-17F]

Cat. No. GTX57213

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Applications	WB, ICC/IF, FCM, Functional Assay
Reactivity	Human

Package
100 µl

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1:2000
ICC/IF	Assay dependent
FCM	Assay dependent
Functional Assay	Assay dependent

Not tested in other applications.

Product Note	This antibody recognizes lacto-N-fucopentaose I (LNFP I: Fucα1–2Galβ1–3GlcNAcβ1–3Galβ1–4Glc) on a glycolipid / glycoprotein. R-17F epitopes are expressed on undifferentiated human induced pluripotent stem (iPS) / embryonic stem (ES) cells but not on human embryonal carcinoma (EC) cells nor on differentiated human iPS/ES cells.

Properties

Form	Liquid
Buffer	PBS, 50% Glycerol
Preservative	No preservatives
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4ºC. For long-term storage, aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Human iPS cell line, Tic, derived from human fetus lung cells.
Purification	Protein A Purified.
Conjugation	Unconjugated

For full product information, images and publications, please visit our website.

GeneTex, Inc. (North America)
1-877-436-3839 (Toll-free) 1-949-309-2888 sales@genetex.com

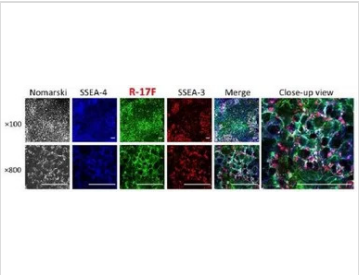
GeneTex International Corporation (Global)
886-3-6208988 886-3-6208989 infoasia@genetex.com

Note

For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

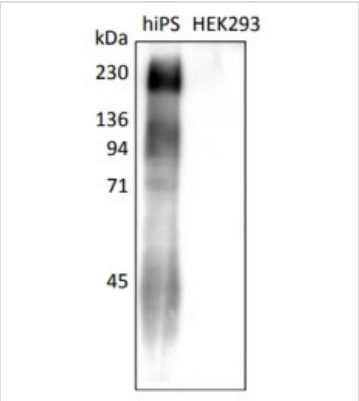
Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

DATA IMAGES



GTX57213 ICC/IF Image

Cultured human iPS cells were stained with R-17F, SSEA-3, and SSEA-4 antibodies. [bars: 100µm]
R-17F stained the entire surface of the cell membranes equally, while the staining by SSEA-3 and SSEA-4 antibodies are not evenly. This suggests that R-17F epitope is expressed ubiquitously all over the human iPS cells.



GTX57213 WB Image

WB analysis of human iPS and HEK293 cell lysate using GTX57213 lacto-N-fucopentaose I antibody [R-17F].
One major positive band and several minor bands were specific to human iPS cells, and any positive band was not obtained with HEK293 cells.
Human iPS cell: LNFP I positive
HEK293 cell lysate: Negative Control
Loading : 5ug per lane
Dilution : 1:2000

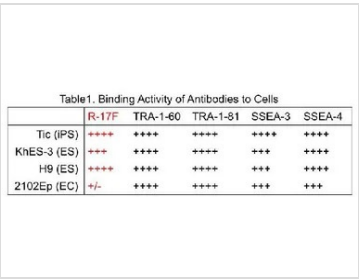


Table1. Binding Activity of Antibodies to Cells

	R-17F	TRA-1-60	TRA-1-81	SSEA-3	SSEA-4
Tic (iPS)	++++	++++	++++	++++	++++
KhES-3 (ES)	+++	++++	++++	+++	++++
H9 (ES)	++++	++++	++++	+++	++++
2102Ep (EC)	+/-	++++	++++	+++	+++

GTX57213 Image

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