For Research Use Only

FUT4 Polyclonal antibody Catalog Number:19497-1-AP Featured Product

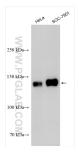
Featured Product



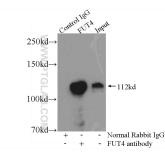


Basic Information	Catalog Number: 19497-1-AP	GenBank Accession NM_002033	Number:	Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI): 2526		Recommended Dilutions: WB 1:500-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500	
	150ul , Concentration: 600 ug/ml by				
	Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;				
	Source: Rabbit Isotype:				
	lgG	Calculated MW: 59 kDa			
		Observed MW: 95-140 kDa	V:		
Applications	Tested Applications: WB, IHC, FC (Intra), IP, ELISA		Positive Controls: WB : HeLa cells, HepG2 cells, HL-60 cells, Jurkat cells, SGC-7901 cells		
	Cited Applications:				
	WB, IHC, IF Species Specificity:		IP : HeLa cells	,	
	human	numan IHC : huma		n lung cancer tissue, human gliomas tissue cancer tissue, human stomach cancer	
	Cited Species: human, mouse	d Species: tissue			
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
Background Information	FUT4, also named as ELFT and FCT3A, belongs to the glycosyltransferase 10 family. FUT4 may catalyze alpha-1,3 glycosidic linkages involved in the expression of Lewis X/SSEA-1 and VIM-2 antigens. The expression of CD15 (acts as a terminal glycotope in glycoproteins and glycolipids) is directed by FUT4 in promyelocytes and monocytes. FUT4 is an antigenic epitope defined as a Lewis X carbohydrate structure is expressed on murine embryonal carcinoma cells (EC), murine ES and iPS cells, and murine and human germ cells. It is widely used as a positive surface marker for mouse undifferentiated ES and iPS cells and a negative surface marker for human undifferentiated ES and iPS cells. Is accompanied by an increase in FUT4 expression. FUT4 is associated with cell adhesion, migration and differentiation. 19497-1-AP antibody detects the glycosylated isoform proteins around 95-140 kDa in SDS-PAGE. (PMID: 28706275, 28914881, 11278338)				
Notable Publications	Author Pul	bmed ID Jou	ırnal	Application	
	Faisal Aziz 264	427350 Tox	cicol In Vitro	WB, IF	
	Qin Zheng 289	914881 Cel	ll Death Differ	WB,IF	
	Chaoyue Zhong 36:	139441 Cel	lls	WB	
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50 Aliquoting is unnecessary for -20°C s	% glycerol pH 7.3.			
*** 20ul sizes contain 0.1% BSA					

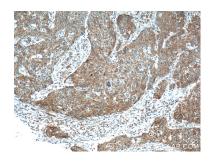
Selected Validation Data



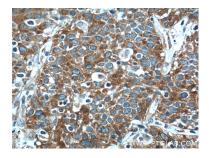
Various lysates were subjected to SDS PAGE followed by western blot with 19497-1-AP (FUT4 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



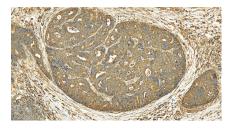
IP result of anti-FUT4 (IP:19497-1-AP, 4ug; Detection:19497-1-AP 1:500) with HeLa cells lysate 2480ug.



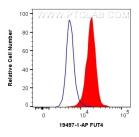
Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 19497-1-AP (FUT4 Antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 19497-1-AP (FUT4 Antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded stomach cancer slide using 19497-1-AP (FUT4 antibody) at dilution of 1:100 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 A375 cells were intracellularly stained with 0.5 ug Anti-Human FUT4 (19497-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit 1gG(H+L) at dilution 1:1000 (red), or 0.5 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).