LIF Polyclonal Antibody

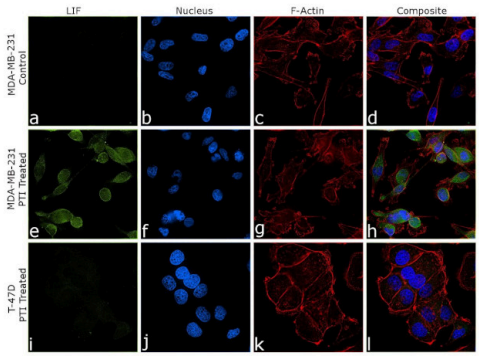
Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	E.coli-derived human LIF recombinant protein (Position: S23-F202).
Form	Lyophilized
Concentration	500 µg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 5mg BSA
Contains	0.05mg sodium azide
Storage conditions	-20°C
RRID	AB_2746715

Applications	Tested Dilution	Publications
Western Blot (WB)	0.1-0.5 µg/mL	-
Immunohistochemistry (Paraffin) (IHC (P))	0.5-1 µg/mL	-
Immunocytochemistry (ICC/IF)	1:100	-

Product Specific Information

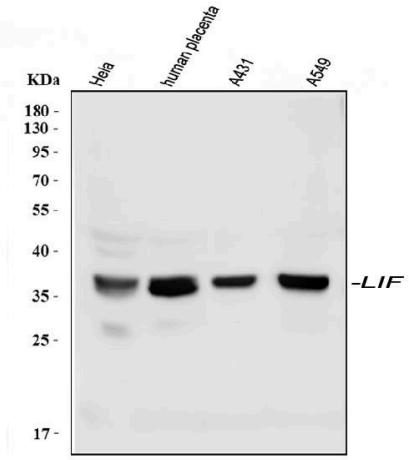
Reconstitute with 0.2 mL of distilled water to yield a concentration of 500 µg/mL.

Product Images For LIF Polyclonal Antibody



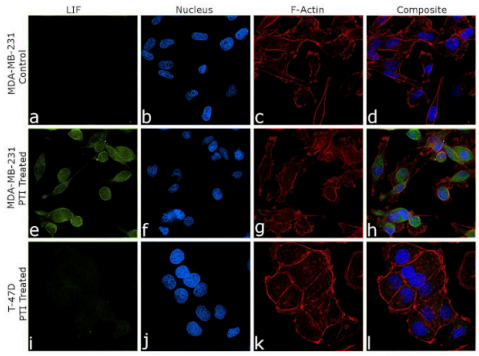
LIF Antibody (PA5-79600)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using Anti-LIF Polyclonal Antibody (Product # PA5-79600) shows cytoplasmic accumulation of LIF in MDA-MB-231 cells upon PTI treatment but not in T-47D treated with the same. MDA-MB-231 is reported to be high expressing for LIF in comparison to T-47D. {RE}



LIF Antibody (PA5-79600) in WB

Western blot analysis of LIF in, Lane 1: human Hela whole cell lysates, Lane 2: human placenta tissue lysates, Lane 3: human A431 whole cell lysates, Lane 4: human A549 whole cell lysates. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 µg of sample under reducing conditions. After Electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. The membrane was blocked with 5% non-fat milk /TBS for 1. 5 hour at RT. The membrane was incubated with LIF Polyclonal Antibody (Product # PA5-79600) at 0.5 g/mL overnight at 4°C, then washed with TBS-0. 1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5,000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit. A specific band was detected for LIF at approximately 36 kDa. The expected band size for LIF is at 22 kDa.



LIF Antibody (PA5-79600) in ICC/IF

Immunofluorescence analysis of LIF was performed using 80% confluent log phase MDA-MB-231 and T-47D, control and PTI treated, cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with LIF Polyclonal Antibody (Product # PA5-79600) at 1:100 in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790), (1:2500 dilution), for 45 minutes at room temperature (Panel a,e,i: Green). Nuclei (Panel b,f,j: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c,g,k: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image of untreated MDA-MB-231 cells with faint cytoplasmic staining for LIF that is enhanced upon PTI treatment (Panel h). Panel l represents T-47D treated with PTI showing no staining for LIF. The images were captured at 60X magnification. This difference in expression of LIF between MDA-MB-231 and T-47D is reported in several studies and is shown to influence the tumorigenesis and metastatic potential of these cancer cells [doi: 10.18632/oncotarget.1772; 10.18632/oncotarget.6756; 10.1158/1535-7163.MCT-18-1258]

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