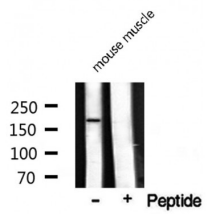
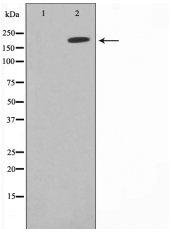
TOP2A Ab

Cat.#: AF0793	Concn.: 1mg/ml	Mol.Wt.: 174kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

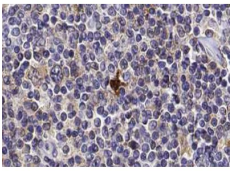
Application:	WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500
Reactivity:	Human,Mouse
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).
Specificity:	TOP2A Ab detects endogenous levels of TOP2A.
Immunogen:	A synthesized peptide derived from human TOP2A.
Uniprot:	P11388
Description:	DNA topoisomerase 2-alpha; DNA topoisomerase II, 170 kD; DNA topoisomerase II, alpha isozyme; TOP2; TOP2A; topoisomerase (DNA) II alpha 170kDa; TP2A
Subcellular Location:	Cytoplasm. Nucleus > nucleoplasm. Generally located in the nucleoplasm.
Similarity:	The N-terminus has several structural domains; the ATPase domain (about residues 1-265), the transducer domain (about 266-428) and the toprim domain (455-572) (PubMed:25202966). Comparing different structures shows ATP hydrolysis induces domain shifts in the N-terminus that are probably part of the mechanism of DNA cleavage and rejoining (PubMed:25202966).Belongs to the type II topoisomerase family.
Storage Condition and Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.



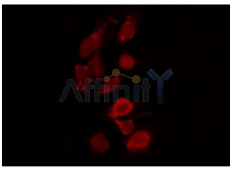
Western blot analysis on mouse muscle lysate using TOP2A Ab



Western blot analysis on Jurkat cell lysate using TOP2A Ab



AF0793 at 1/100 staining human Lymph node tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



AF0793 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.