Anti-Phospho-(Ser/Thr) ATM/ATR Substrate Rabbit pAb

Purified Rabbit Polyclonal Antibody

Catalog # P108819

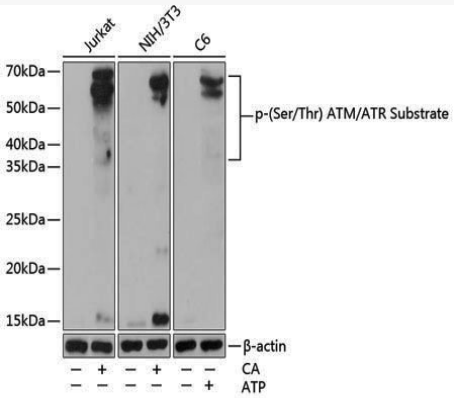
Product Information

Application	WB, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:500~1:2,000
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic peptide corresponding to a sequence containing phosphorylated S & T.
Format	Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-(Ser/Thr) ATM/ATR Substrate Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	ATM; ATR; DNA PK; DNAPK; phospho S/T-Q; phospho SQ/TQ; PI3K; PIKK; pS/T-Q; pSQ/TQ; SQ/TQ.
Calculated MW	Observed MW: 38-68 kDa
Background	The functionally related ATM (ataxia telangiectasia-mutated) and ATR (ATM-Rad3-related) protein kinases are critical regulators of DNA damage responses in mammalian cells. ATM and ATR share highly overlapping substrate specificities and show a strong preference for the phosphorylation of Serine (S) or Threonine (T) residues followed by Gln. It also called SQ or TQ consensus sites.

Validation Images



Western blot analysis of various lysates using Phospho-(Ser/Thr) ATM/ATR Substrate pAb (P108819) at 1:1,000 dilution. Jurkat and NIH/3T3 cells were treated by Calyculin A (100 nM) at 37°C for 30 minutes after serum-starvation overnight. C6 cells were treated by ATP(5 mM) at 30°C for 1 hour.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Kit (SQ201).
Exposure time: 60s.