

ATM(F858L)**ATM(F858L)****Cat. #:** 26141**Gene Symbol:** ATM**Description:** Anti-ATM(F858L) Mouse Monoclonal Antibody**Background:** Ataxia telangiectasia mutated (ATM) is a serine/threonine protein kinase that is recruited and activated by DNA double-strand breaks. It phosphorylates several key proteins that initiate activation of the DNA damage checkpoint, leading to cell cycle arrest, DNA repair or apoptosis. Activity of ATM protein is under tight control, and mutation of ATM can cause disease such as Ataxia telangiectasia (AT) and cancers.**Immunogen:** A synthetic peptide from the internal region of ATM which includes the mutation of F858L, human origin.**Applications:** ELISA, WB, IHC**Recommended Dilutions:**

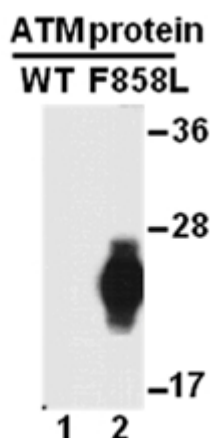
ELISA: 1:1000–1:5000

WB: 1:100–1:1000

IHC: 1:50–1:100

Concentration: 1 mg/ml**Host Species:** Mouse**Format:** Liquid**Clonality:** Monoclonal**Isotype:** IgG**Purity:** Purified from ascites**Preservative:** No**Constituents:** PBS (without Mg^{2+} and Ca^{2+}), pH 7.4, 150 mM NaCl, 50% glycerol**Species Reactivity:** Recognizes ATM(F858L), but not wild type ATM protein from vertebrates.**Storage Conditions:** Store at $-20^{\circ}C$. Avoid repeated freezing and thawing

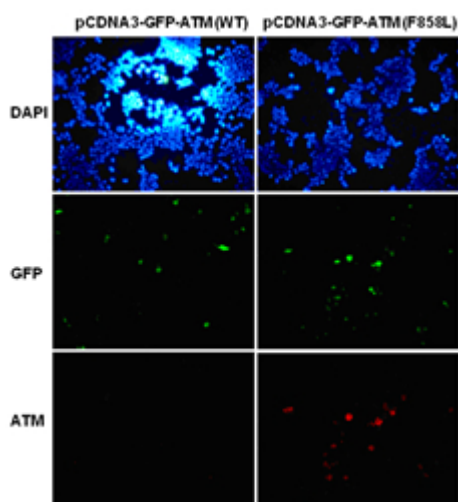
Western blot:



WB: Anti-ATM(F858L) mAb

Western blot analysis of recombinant ATM(F858L) and wild type proteins. Purified His-tagged ATM(F858L) protein (amino acids 2400–3056, lane 2) and corresponding wild type protein (lane 1) were blotted with Anti-ATM(F858L) mouse monoclonal antibody (Cat. #26141).

Immunofluorescence:



Immunofluorescence of cells expressing ATM(F858L) protein with anti-ATM(F858L) antibody. HEK293T cells were transfected with pCDNA3-GFP-ATM (WT) plasmid (left column) or pCDNA3-GFP-ATM(F858L) plasmid (right column), then fixed and stained with Anti-ATM(F858L) monoclonal antibody (Cat. #26141).