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Publication



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Quantity:	100 μL
Target:	ATM
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Purified recombinant fragment of human ATM expressed in E. coli.
Clone:	5C5
Isotype:	lgG1
Purification:	purified

Target Details

Target:	ATM
Alternative Name:	ATM (ATM Products)
Background:	Description: The protein encoded by this gene belongs to the PI3/PI4-kinase family. This protein
	is an important cell cycle checkpoint kinase that phosphorylates, thus, it functions as a
	regulator of a wide variety of downstream proteins, including tumor suppressor proteins p53
	and BRCA1, checkpoint kinase CHK2, checkpoint proteins RAD17 and RAD9, and DNA repair
	protein NBS1. This protein and the closely related kinase ATR are thought to be master

controllers of cell cycle checkpoint signaling pathways that are required for cell response to
DNA damage and for genome stability. Mutations in this gene are associated with ataxia
telangiectasia, an autosomal recessive disorder. Tissue specificity: Found in pancreas, kidney,
skeletal muscle, liver, lung, placenta, brain, heart, spleen, thymus, testis, ovary, small intestine,
colon and leukocytes.

Aliases: AT1, ATA, ATC, ATD, ATE, ATDC, TEL1, TEL01, MGC74674, DKFZp781A0353, ATM

Molecular Weight:	351 kDa
Gene ID:	472
HGNC:	472

Pathways: p53 Signaling, Apoptosis, DNA Damage Repair, Inositol Metabolic Process, Positive Regulation of Response to DNA Damage Stimulus

Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage

Publications

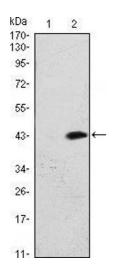
Product cited in:

Golledge, Biros, Clancy, Cooper, Palmer, Norman: "A single-nucleotide polymorphism in the gene encoding osteoprotegerin is associated with diastolic blood pressure in older men." in: **American journal of hypertension**, Vol. 22, Issue 11, pp. 1167-70, (2009) (PubMed).

Talmud, Drenos, Shah, Shah, Palmen, Verzilli, Gaunt, Pallas, Lovering, Li, Casas, Sofat, Kumari,

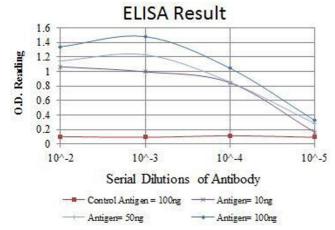
Rodriguez, Johnson, Newhouse, Dominiczak, Samani, Caulfield, Sever, Stanton, Shields, Padmanabhan et al.: "Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. ..." in: **American journal of human genetics**, Vol. 85, Issue 5, pp. 628-42, (2009) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis using ATM mAb against HEK293 (1) and ATM(AA: 2705-2820)-hlgGFc transfected HEK293 (2) cell lysate.



ELISA

Image 2. Red: Control Antigen (100 ng), Purple: Antigen (10 ng), Green: Antigen (50 ng), Blue: Antigen (100 ng),