G-Biosciences Image not found or type unknown

Immunotag™ Phospho-ATR (Ser428) Antibody

Antibody Specification

Catalog No.	ITA3877
Product Description	Immunotag™ Phospho-ATR (Ser428) Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	Phospho-ATR (Ser428)
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:1000-3000
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human Phospho-ATR (Ser428)
Specificity	Phospho-ATR (Ser428) Antibody detects endogenous levels of ATR only when phosphorylated at Ser428
Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form	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
Gene Name	ATR
Accession No.	Q13535

Antibody Specification

Alternate Names	Ataxia telangiectasia and Rad3 related; Ataxia telangiectasia and Rad3-related protein; ATR; ATR_HUMAN; FCTCS; FRAP Related Protein 1; FRAP-related protein 1; FRP1; MEC1; MEC1 mitosis entry checkpoint 1 homolog; Protein kinase ATR; RAC3; Rad3 related protein; SCKL; SCKL1; Serine/threonine protein kinase ATR; Serine/threonine-protein kinase ATR;
Description	Serine/threonine protein kinase which activates checkpoint signaling upon genotoxic stresses such as ionizing radiation (IR), ultraviolet light (UV), or DNA replication stalling, thereby acting as a DNA damage sensor. Recognizes the substrate consensus sequence [ST]-Q. Phosphorylates BRCA1, CHEK1, MCM2, RAD17, RPA2, SMC1 and p53/TP53, which collectively inhibit DNA replication and mitosis and promote DNA repair, recombination and apoptosis. Phosphorylates 'Ser-139' of histone variant H2AX/H2AFX at sites of DNA damage, thereby regulating DNA damage response mechanism. Required for FANCD2 ubiquitination. Critical for maintenance of fragile site stability and efficient regulation of centrosome duplication.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	309 KD
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.