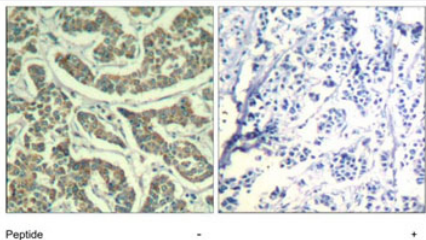


ATR polyclonal antibody

Catalog # PAB12228 Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ATR polyclonal antibody (Cat # PAB12228).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ATR.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to residues surrounding S428 of human ATR.
Sequence	GISPK
Host	Rabbit
Theoretical MW (kDa)	250
Reactivity	Human
Specificity	ATR (Ab-428) Antibody detects endogenous levels of total ATR protein.
Form	Liquid
Purification	Immunoaffinity purification
Concentration	1 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

Recommend Usage	Immunohistochemistry (1:50-1:100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (without Mg^{2+} and Ca^{2+}), 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ATR polyclonal antibody (Cat # PAB12228).

Gene Info — ATR

Entrez GeneID	545
Protein Accession#	Q13535
Gene Name	ATR
Gene Alias	FRP1, MEC1, SCKL, SCKL1
Gene Description	ataxia telangiectasia and Rad3 related
Omim ID	210600 601215
Gene Ontology	Hyperlink
Other Designations	FRAP-related protein-1 MEC1, mitosis entry checkpoint 1, homolog Rad3 related protein ataxia telangiectasia and Rad3 related protein protein kinase ATR

Publication Reference

- [Regulation of DNA replication by ATR: signaling in response to DNA intermediates.](#)

Shechter D, Costanzo V, Gautier J.

DNA Repair 2004 Aug; 3(8-9):901.

Application: IHC, WB, Human, Cancers, Mammalian cells

- [The many substrates and functions of ATM.](#)

Kastan MB, Lim DS.

Molecular and Cellular Biology 2000 Dec; 1(3):179.

Application: IHC, IP, WB-Ce, WB-Tr, Human, Cancers, Mammalian cells

- [Phosphorylation-dependent prolyl isomerization: a novel signaling regulatory mechanism.](#)

Zhou XZ, Lu PJ, Wulf G, Lu KP.

Cellular and Molecular Life Sciences 1999 Nov; 56(9-10):788.

Pathway

- [Cell cycle](#)
- [p53 signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Ataxia telangiectasia](#)
- [Atherosclerosis](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Coronary Disease](#)
- [DNA Damage](#)
- [Endometrial Neoplasms](#)

- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Microsatellite Instability](#)
- [Myocardial Infarction](#)
- [Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Werner syndrome](#)