ARG53704
anti-URI antibody [SP215]

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Monoclonal antibody [SP215] recognizes URI
Tested Reactivity	Hu
Tested Application	FACS, IHC-P
Host	Rabbit
Clonality	Monoclonal
Clone	SP215
Isotype	IgG
Target Name	URI
Species	Human
Immunogen	Synthetic peptide derived from the C-terminus of the human URI protein.
Conjugation	Un-conjugated
Alternate Names	Protein NNX3; RMP; RNA polymerase II subunit 5-mediating protein; C19orf2; NNX3; URI; RPB5-mediating protein; PPP1R19; Unconventional prefoldin RPB5 interactor 1; Protein phosphatase 1 regulatory subunit 19

Application Instructions

Application table

Application	Dilution
FACS	Assay-Dependent
IHC-P	1:100

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Ovarian Carcinoma

Properties

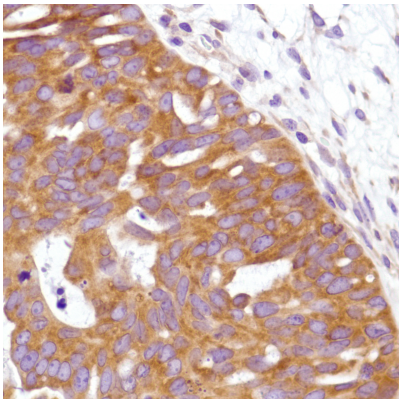
Form	Liquid
Purification	Purified by protein A/G
Buffer	PBS (pH 7.6), 1% BSA and < 0.1% Sodium azide
Preservative	< 0.1% Sodium azide
Stabilizer	1% BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 8725 Human Swiss-port # O94763 Human
Gene Symbol	URI1
Gene Full Name	URI1, prefoldin-like chaperone
Background	This gene encodes member of the prefoldin family of molecular chaperones. The encoded protein functions as a scaffolding protein and plays roles in ubiquitination and transcription, in part though interactions with the RNA polymerase II subunit RPB5. This gene may play a role in multiple malignancies including ovarian cancer and hepatocellular carcinoma. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 22. [provided by RefSeq, Nov 2011]
Function	Involved in gene transcription regulation. Acts as a transcriptional repressor in concert with the corepressor UXT to regulate androgen receptor (AR) transcription. May act as a tumor suppressor to repress AR-mediated gene transcription and to inhibit anchorage-independent growth in prostate cancer cells. Required for cell survival in ovarian cancer cells. Together with UXT, associates with chromatin to the NKX3-1 promoter region. Antagonizes transcriptional modulation via hepatitis B virus X protein. Plays a central role in maintaining S6K1 signaling and BAD phosphorylation under normal growth conditions thereby protecting cells from potential deleterious effects of sustained S6K1 signaling. The URI1-PPP1CC complex acts as a central component of a negative feedback mechanism that counteracts excessive S6K1 survival signaling to BAD in response to growth factors. Mediates inhibition of PPP1CC phosphatase activity in mitochondria. Coordinates the regulation of nutrient-sensitive gene expression availability in a mTOR-dependent manner. Seems to be a scaffolding protein able to assemble a prefoldin-like complex that contains PFDs and proteins with roles in transcription and ubiquitination. [UniProt]
Research Area	Gene Regulation antibody
Calculated Mw	60 kDa
PTM	Phosphorylated. Phosphorylation occurs essentially on serine residues. Phosphorylation occurs in response to androgen treatment in prostate cancer cells in a mTOR-dependent manner. Phosphorylated; hyperhosphorylated in mitochondria in a mTORC-dependent signaling pathway. Phosphorylated at Ser-372 by RPS6KB1 in a growth factor- and rapamycin-dependent manner. S6K1-mediated mitochondrial phosphorylation at Ser-372 disrupts the URI1-PPP1CC complex in the mitochondrion, relieves PPP1CC phosphatase inhibition activity and hence engages a negative feedback diminishing RPS6KB1 kinase activity, preventing sustained S6K1-dependent signaling.
Cellular Localization	Cytoplasm, Nucleus

Images



ARG53704 anti-URI antibody [SP215] IHC-P image

Immunohistochemistry: Human Ovarian Adenocarcinoma stained with URI antibody [SP215] (ARG53704)