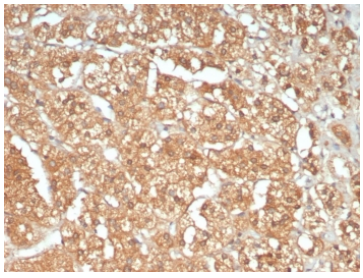
ATM Antibody / Ataxia telangiectasia mutated [clone ATM/9472] (V5769)

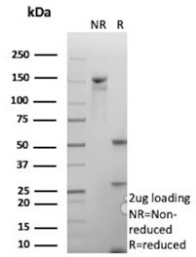
Catalog No.	Formulation	Size
V5769-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5769-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5769SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	ATM/9472
Purity	Protein A affinity
UniProt	Q13315
Localization	Cytoplasm, Cytoplasmic vesicle, Nucleus
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This ATM antibody is available for research use only.



IHC staining of FFPE human adrenal gland tissue with ATM antibody (clone ATM/9472). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free ATM antibody (clone ATM/9472) as confirmation of integrity and purity.

Description

The phosphatidylinositol kinase (PIK) family members fall into two distinct subgroups. The first subgroup contains proteins such as the PI 3- and PI 4-kinases and the second group comprises the PIK-related kinases. The PIK-related kinases include Atm, DNA-PKCS and FRAP. These proteins have in common a region of homology at their carboxy-termini that is not present in the PI 3- and PI 4-kinases. The Atm gene is mutated in the autosomal recessive disorder ataxia telangiectasia (AT) that is characterized by cerebellar degeneration (ataxia) and the appearance of dilated blood vessels (telangiec-tases) in the conjunctivae of the eyes. AT cells are hypersensitive to ionizing radiation, impaired in mediating the inhibition of DNA synthesis and display delays in p53 induction.

Application Notes

Optimal dilution of the ATM antibody should be determined by the researcher.

Immunogen

A portion of amino acids 1900-2500 from human ATM protein was used as the immunogen for the ATM antibody.

Storage

Aliquot the ATM antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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