

Phospho Ser477 Che-1 (AATF) Antibody

Affinity purified rabbit polyclonal antibody Catalog # AN1243

Specification

Phospho Ser477 Che-1 (AATF) Antibody - Product Information

Application WB
Primary Accession Q9NY61
Reactivity Human

Predicted Bovine, Mouse, Monkey, Rat, Xenopus

Host Rabbit
Clonality polyclonal
Calculated MW 66 KDa

Phospho Ser477 Che-1 (AATF) Antibody - Additional Information

Gene ID 26574
Gene Name AATF

Other Names

Protein AATF, Apoptosis-antagonizing transcription factor, Rb-binding protein Che-1, AATF, CHE1, DED

Target/Specificity

Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser477 conjugated to KLH.

Dilution

WB~~ 1:1000

Format

Prepared from rabbit serum by affinity purification via sequential chromatography on phosphoand dephosphopeptide affinity columns.

Antibody Specificity

Specific for the ~66k Che-1 protein phosphorylated at Ser477.Immunolabeling is blocked by preadsorption of antibody with the phospho-peptide that wasused to generate the antibody but not by the corresponding dephospho-peptide.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Phospho Ser477 Che-1 (AATF) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

Blue Ice

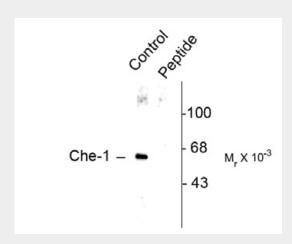


Phospho Ser477 Che-1 (AATF) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Phospho Ser477 Che-1 (AATF) Antibody - Images



Western blot of HeLa lysate showing specific immunolabeling of the ~66k Che-1 protein phosphorylated at Ser477. The phosphospecificity is shown in the second lane where immunoreactivity is blocked by preadsorption with the phospho-peptide (Peptide) used as antigen but not by the dephosphopeptide (not shown).

Phospho Ser477 Che-1 (AATF) Antibody - Background

Che-1, also known as AATF (apoptosis-antagonizing transcription factor), is a RNA polymerase II-binding protein involved in regulating the transcription factor E2F and promoting cell cycle progression (Burgdorf et al., 2004). It has been suggested that Che-1 may act as a neuroprotective factor against Abeta-induced apoptosis by suppressing the production of reactive oxidative species (Xie et al., 2004). The checkpoint kinase Chk2 has been shown to phosphorylate Che-1 at Ser477 contributing to the maintenance of the G2/M checkpoint induced by DNA damage (Bruno et al., 2006).

Phospho Ser477 Che-1 (AATF) Antibody - References

Burgdorf S, Leister P, Scheidtmann KH. (2004) TSG101 interacts with apoptosis-antagonizing transcription

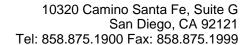
factor and enhances androgen receptor-mediated transcription by promoting its monoubiguitination. | Biol

Chem. 279(17):17524-34

Xie J, Guo Q (2004) AATF protects neural cells against oxidative damage induced by amyloid beta-peptide.

Neurobiol Dis. 16(1):150-7

Bruno T, De Nicola F, Iezzi S, Lecis D, D'Angelo C, Di Padova M, Corbi N, Dimiziani L, Zannini L,





Jekimovs

C, Scarsella M, Porrello A, Chersi A, Crescenzi M, Leonetti C, Khanna KK, Soddu S, Floridi A, Passananti C,

Delia D, Fanciulli M. (2006) Che-1 phosphorylation by ATM/ATR and Chk2 kinases activates p53 transcription and the G2/M checkpoint. Cancer Cell. 10(6):473-86