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# 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 phospho- and 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

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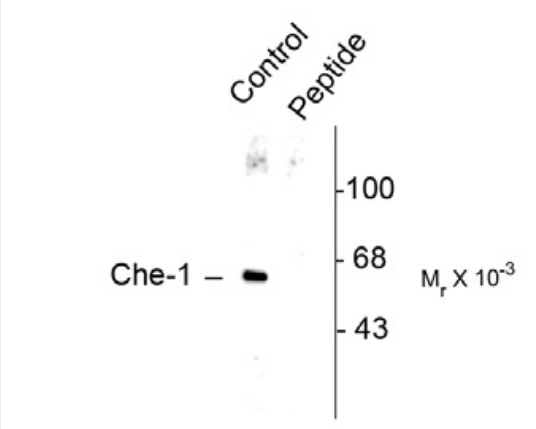
## Phospho Ser477 Che-1 (AATF) Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- 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 monoubiquitination. J Biol
Chem. 279(17):17524-34
Xie J, Guo Q (2004) AATF protects neural cells against oxidative damage induced by amyloid beta-peptide.
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Bruno T, De Nicola F, Iezzi S, Lecis D, D'Angelo C, Di Padova M, Corbi N, Dimiziani L, Zannini L,

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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