

Basic Information

Product Name	Anti-AATF (Phospho-Ser477) Antibody
Gene Name	AATF
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB
Contents	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser477 of human Che-1, conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Human.
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Dilution Ratios	WB: 1:1000

Storage

Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. After date of receipt, stable for at least 1 year at -20°C.

Background Information

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 Ser-477 contributing to the maintenance of the G2/M checkpoint induced by DNA damage (Bruno et al., 2006).

Selected Validation Data

Western blot of HeLa cell lysate showing specific immunolabeling of the ~66 kDa Che-1 protein phosphorylated at Ser⁴⁷⁷ in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is blocked by preadsorption of the phosphopeptide used as the antigen, but not by the corresponding non-phosphopeptide (not shown).

