
Fe65 Protein Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 250647

Unit: 0.1 mg

Description:

Fe65 (Amyloid beta A4 precursor protein-binding family B member 1) is an adaptor protein that forms a transcriptionally active complex with the gamma-secretase-derived amyloid precursor protein (APP) intracellular domain. APP functions as a cytosolic anchoring site that prevents Fe65 nuclear translocation. Following exposure to DNA damaging agents, Fe65 is released from the membrane and translocates to the nucleus to induce apoptosis. It acts by binding to Tyr-142-phosphorylated histone H2AX at double-strand breaks (DSBs), recruiting other pro-apoptosis factors such as MAPK8/JNK1. Fe65 is required for histone H4 acetylation at DSBs. Its ability to specifically bind modified histones and chromatin modifying enzymes such as KAT5/TIP60 probably explains the transcription activation activity of Fe65. Fe65 plays a role in the pathogenesis of Alzheimer's disease. It also blocks cell cycle progression by down-regulating thymidylate synthase expression.

Isotype: Rabbit Ig

Applications: E, WB, IHC

Species Reactivity: H, M, R

Format: Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4 with 0.09% sodium azide. Antibody was purified by Protein-G affinity chromatography.

Alternate Names: Fe65 protein; Protein Fe65; Amyloid beta A4 precursor protein-binding family B member 1; APBB1; RIR

Accession No.: O00213

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Fe65.

Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:100-1:500

Storage: Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.