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Anti-APP [pT668]
Rabbit Polyclonal antibody
Ref. 4BDX-1503

Biomolecule
Anti-APP [pT668]
rabbit polyclonal antibody

Size
80 µl

Formulation
Rabbit serum diluted in glycerol with 0.05% sodium azide

Storage
+4°C / -20°C

Immunogen
Peptide

Specificity
Anti-APP phosphorylated at threonine 668

Cross-reactivity
Human, Mouse, Rat

Applications
WB, IHC, IF

- **Preparation**

This polyserum was obtained by immunizing a rabbit with a 12 amino acid peptide containing the phosphorylated threonine 668 (YVDAAVTPEERH). The phosphorylated threonine is underlined.

- **Specificity**

Determined by its ability to recognize human APP phosphorylated at threonine 668.

- **Storage**

Store at +4°C for short term use (1-2 weeks) - Store at -20°C for long term use.

- **Applications**

Recommended concentration of use are:

Western-blot: 1:4000 in Tris HCl pH 8.0 Tween-20 0.05% and 5% dry skimmed milk (working with cell and tissue).

IHC /IF: 1:200 in PBS with 5% BSA (working with cell, frozen and paraffin embedded tissue).

• General information

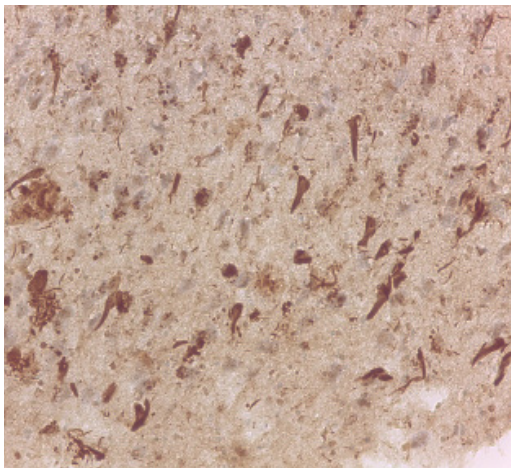
Amyloid protein precursor also called APP (Gene ID: 351) is a type 1 transmembrane protein whose metabolism leads to the production of amyloid-beta peptides. In Alzheimer's disease, amyloid peptides are the main components of amyloid deposits. Phosphorylation of APP at threonine 668 is increased in Alzheimer's disease and promotes amyloid-beta peptide production. The threonine 668 is phosphorylated by CDK5 (cyclin dependent kinase 2), JNKs (c-Jun N-terminal kinases) and GSK3 (glycogen synthase kinase 3) and DYRK1A (Dual-specificity tyrosine(Y)-phosphorylation regulated kinase 1A).

• References

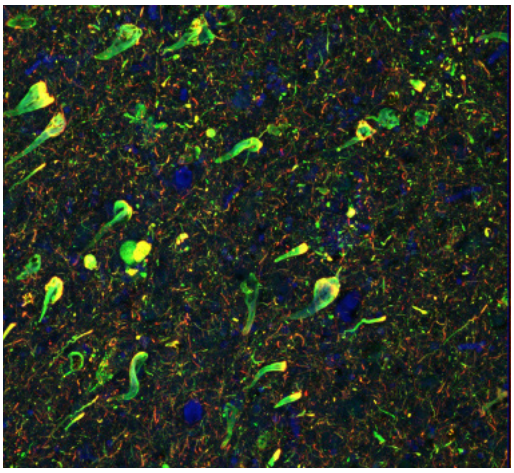
Vingtdeux V, Hamdane M, Gompel M, Begard S, Drobecq H, Ghestem A, Grosjean ME, Kostanjevecki V, Grognet P, Vanmechelen E, Buee L, Delacourte A, Sergeant N (2005). Phosphorylation of amyloid precursor carboxy-terminal fragments enhances their processing by a gamma-secretase-dependent mechanism. Neurobiol Dis. 20(2): 625-637.

• Application examples

Western-blotting of mouse brain extracts



Immunohistochemistry of human Alzheimer disease brain



Immunofluorescence of human Alzheimer disease brain

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