

Anti-Phospho-PP2A (Tyr307) Antibody (2E533)

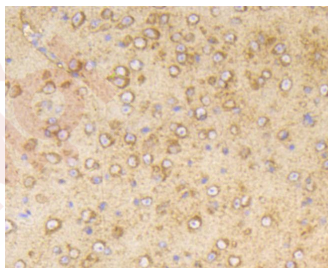
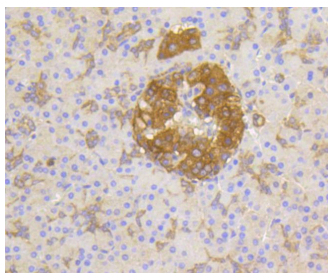
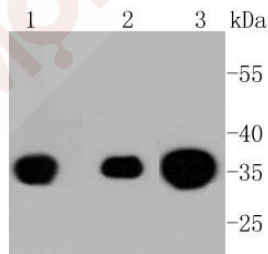
Product Details

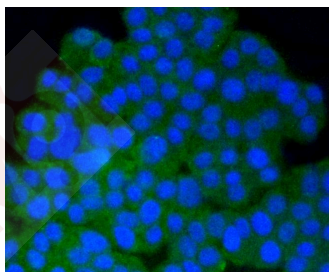
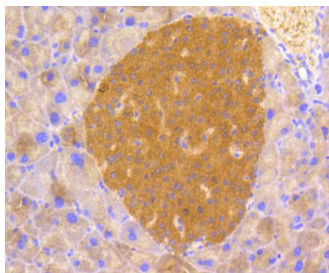
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 35 kDa.
Clone:	2E533
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of Phospho-PP2A (pY307) on different lysates using anti-Phospho-PP2A (pY307) antibody at 1/1,000 dilution. Positive control: Lane 1: A431, Lane 2: F9, Lane 3: PC12.
2. Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-Phospho-PP2A (pY307) antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Phospho-PP2A (pY307) antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue using anti-Phospho-PP2A (pY307) antibody. Counter stained with hematoxylin.
5. ICC staining Phospho-PP2A (pY307) in PC12 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application: ICC/IF,IHC,IP,WB

Recommended WB: 1:1000-5000; IHC: 1:50-200; ICC/IF: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: A synthesized phosphopeptide: human PP2A around the phosphorylation site of Tyr307

Antigen Species: Human

Uniprot ID: P62714

Synonyms: PP2A (p-Y307);p-PP2A (Tyr307);PP2A (p-Tyr307);p-PP2A (Y307)

Research Background

Protein phosphatase type 2A (PP2A) is an essential protein serine/threonine phosphatase that is conserved in all eukaryotes. PP2A is a key enzyme within various signal transduction pathways as it regulates fundamental cellular activities such as DNA replication, transcription, translation, metabolism, cell cycle progression, cell division, apoptosis and development. The core enzyme consists of catalytic C and regulatory A (or PR65) subunits, with each subunit represented by α and β isoforms. Additional regulatory subunits belong to four different families of unrelated proteins. Both the B (or PR55) and B' regulatory protein families contain α , β , γ and δ isoforms, with the B' family also including an ϵ protein. B'' family proteins include PR72, PR130, PR59 and PR48 isoforms, while striatin (PR110) and SG2NA (PR93) are both members of the B''' regulatory protein family. These B subunits competitively bind to a shared binding site on the core A subunit. This variable array of holoenzyme components, particularly regulatory B subunits, allows PP2A to act in a diverse set of functions. PP2A function is regulated by expression, localization, holoenzyme composition and post-translational modification. Phosphorylation of PP2A at Tyr307 by Src occurs in response to EGF or insulin and results in a substantial reduction of PP2A activity. Reversible methylation on the carboxyl group of Leu309 of PP2A has been observed. Methylation alters the conformation of PP2A, as well as its localization and association with B regulatory subunits.

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