NPAS2 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	E.coli-derived human NPAS2 recombinant protein (Position: D474-Q578).
Form	Lyophilized
Concentration	500 µg/mL
Purification	Affinity chromatography
Storage buffer	PBS with 4mg trehalose
Contains	0.05mg sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2807265

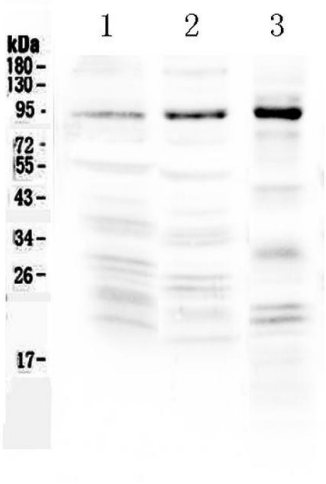
Applications	Tested Dilution	Publications
Western Blot (WB)	0.1-0.5 µg/mL	-
Immunoprecipitation (IP)	-	1 Publication

Product Specific Information

Human NPAS2 shares 88.1% amino acid (aa) sequence identity with mouse NPAS2.

Reconstitute with 0.2 mL of distilled water to yield a concentration of 500 µg/mL.

Product Images For NPAS2 Polyclonal Antibody



NPAS2 Antibody (PA5-95462) in WB
Western blot analysis of NPAS2 in Lane 1: rat brain tissue lysate, Lane 2: mouse brain tissue lysate, Lane 3: human COLO-320 whole cell lysate. Electrophoresis was performed with 5-20% SDS-PAGE gel (70V, Stacking gel; 90V Resolving gel, Time: 2-3 hours), transferred to a nitrocellulose membrane and blocked using 5% Non-fat Milk/TBS (1.5 hrs at room temperature). Samples were incubated with NPAS2 polyclonal antibody (Product # PA5-95462) using a 0.5 µg /mL dilution, followed by a goat anti-rabbit IgG-HRP at a dilution of 1:10,000, and developed with enhanced chemiluminescence (ECL).

1 Reference

Immunoprecipitation (1)

The European journal of neuroscience

Circadian transcription factor NPAS2 and the NAD$^+$ -dependent deacetylase SIRT1 interact in the mouse nucleus accumbens and regulate reward.

"PA5-95462 was used in Immunoprecipitation to reveal an interaction between NPAS2 and SIRT1 in the NAc, which may serve to integrate cocaine's effects on circadian and metabolic factors, leading to regulation of drug reward."

Authors: Becker-Krail DD,Parekh PK,Ketchesin KD,Yamaguchi S,Yoshino J,Hildebrand MA,Dunham B,Ganapathiraju MK,Logan RW,McClung CA

Year
2022

Species
Mouse