

Phospho (Ser31) Tyrosine Hydroxylase Antibody Rabbit Polyclonal Antibody

Catalog # ABV10458

Specification

Phospho (Ser31) Tyrosine Hydroxylase Antibody - Product Information

Application Reactivity Host Clonality Isotype WB Human, Mouse, Rat Rabbit Polyclonal Rabbit IgG

Phospho (Ser31) Tyrosine Hydroxylase Antibody - Additional Information

Application & Usage

The antibody can be used for Western blotting (1:1000), Immunofluorescence (1:1000) and Immunohistochemistry (1:1000). However, the optimal conditions should be determined individually.

Other Names TH; TYH; Tyrosine hydroxylase

Target/Specificity Phospho (Ser31) THY

Antibody Form Liquid

Appearance Colorless liquid

Formulation 100 μl in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 μg per ml BSA and 50% glycerol.

Handling The antibody solution should be gently mixed before use.

Reconstitution & Storage -20 °C

Background Descriptions

Precautions Phospho (Ser31) Tyrosine Hydroxylase Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Phospho (Ser31) Tyrosine Hydroxylase Antibody - Protein Information

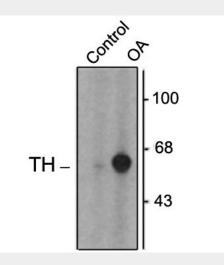


Phospho (Ser31) Tyrosine Hydroxylase Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Phospho (Ser31) Tyrosine Hydroxylase Antibody - Images



Western blot of PC-12 cells incubated in the absence (Control) and presence of okadaic acid (OA, 1 μ M for 60 min) showing specific immunolabeling of the ~60k TH phosphorylated at Ser31.

Phospho (Ser31) Tyrosine Hydroxylase Antibody - Background

Tyrosine hydroxylase (TH) is the rate-limiting enzyme in the synthesis of the catecholamines dopamine and norepinephrine. TH antibodies can therefore be used as markers for dopaminergic and noradrenergic neurons in a variety of applications including depression, schizophrenia, Parkinson's disease and dr µg abuse (Kish et al., 2001; Zhu et al., 2000; Zhu et al., 1999). TH antibodies can also be used to explore basic mechanisms of dopamine and norepinephrine signaling (Witkovsky et al., 2000; Salvatore et al., 2001; Dunkley et al., 2004). The activity of TH is also regulated by phosphorylation (Haycock et al., 1982; Haycock et al., 1992; Jedynak et al., 2002). Phospho-specific antibodies for the phosphorylation sites on TH can be used to great effect in studying this regulation and in identifying the cells in which TH phosphorylation occurs.