



**AB-10312 Rabbit Anti-Tyrosine Hydroxylase Polyclonal Antibody**

**Size:** 100 µg

**Host:** Rabbit

**Isotype:** IgG

**Concentration:** 1 mg/ml

**Purity:** Affinity Purified

**Background:** AB-10312 was made against full length recombinant human TH based on the 524 amino acid sequence in NP\_954987.2, expressed in and purified from E. coli. The antibody works well on cells in culture and tissue sections, including formalin fixed paraffin embedded human and rodent tissues.

**Immunogen:** Full length human TH expressed in and purified from E. coli

**Species:** Human, Mouse, Rat

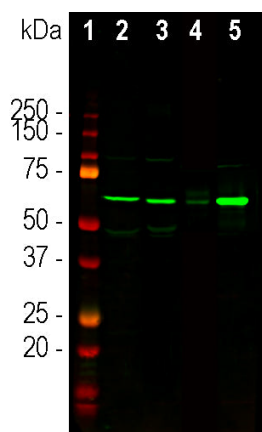
**Observed MW:** ~58kDa

**Applications:**

<b>Western Blot:</b>	<b>1:2,000</b>
<b>Immunofluorescence:</b>	<b>1:2,500</b>
<b>Immunocytochemistry:</b>	<b>1:2,500</b>
<b>Immunohistochemistry:</b>	<b>1:2,500</b>

**Buffer:** Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN<sub>3</sub>

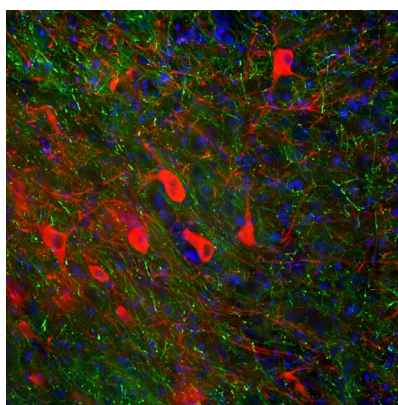
**Storage:** Store the antibody at -20°C for long term storage and refrigerate a 2-8°C for shorter term. Avoid freeze and thaw cycles.



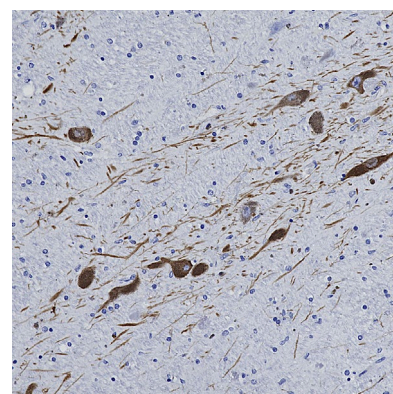
Western blot analysis of different tissue and cell lysates using rabbit pAb to TH, dilution 1:2,500 in green:

- [1] protein standard (red),
- [2] rat brain,
- [3] mouse brain,
- [4] SH-SY5Y cells, and
- [5] PC12 cells.

The strong band at about 60kDa corresponds to TH protein expected in brain and PC12 extracts but not in SH-SY5Y cells.



Immunofluorescent analysis of rat brain section stained with rabbit pAb to tyrosine hydroxylase, dilution 1:2,500, in red and costained with mouse mAb to pNF-H, dilution 1:1,000 in green. The blue is Hoechst staining of nuclear DNA. Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45µM, and free-floating sections were stained with the above antibodies. The H antibody stains the striatal TH expressing interneurons, while the pNF-H antibody labels axons from other neuronal cells.



Chromogenic immunostaining of a NBF fixed paraffin embedded human midbrain section with rabbit pAb to tyrosine hydroxylase, TH, dilution 1:2,500, detected with DAB (brown) using ImmPRESS method and reagents with citrate buffer retrieval. Hematoxylin (blue) was used as the counterstain. In this image, TH antibody labels dopaminergic neurons and their axons traversing the striatum. This antibody performs well in testing with 4% PFA and standard NBF fixed mouse, rat and human tissue. Mouse select image for larger view.

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