

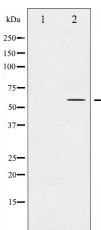
## Phospho-Tyrosine Hydroxylase (Ser31) Ab

Cat.#: AF3113  
Size: 100ul,200ul

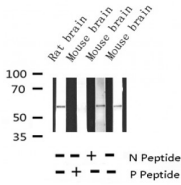
Concn.: 1mg/ml  
Source: Rabbit

Mol.Wt.: 60kDa  
Clonality: Polyclonal

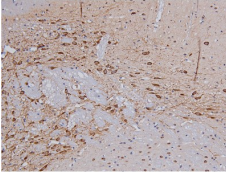
Application:	WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500
Reactivity:	Human,Mouse,Rat
Purification:	The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Specificity:	Phospho-Tyrosine Hydroxylase (Ser31) Ab detects endogenous levels of Tyrosine Hydroxylase only when phosphorylated at Serine 31
Immunogen:	A synthesized peptide derived from human Tyrosine Hydroxylase around the phosphorylation site of Serine 31
Uniprot:	P07101
Description:	Tyrosine hydroxylase (EC 1.14.16.2) is involved in the conversion of phenylalanine to dopamine. As the rate-limiting enzyme in the synthesis of catecholamines, tyrosine hydroxylase has a key role in the physiology of adrenergic neurons.
Tissue Specificity:	Mainly expressed in the brain and adrenal glands.
Similarity:	Belongs to the bipterin-dependent aromatic amino acid hydroxylase family.
Storage Condition and Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt



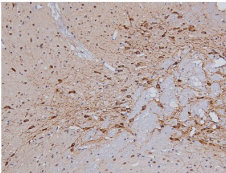
Western blot analysis of Tyrosine Hydroxylase phosphorylation expression in UV treated 293 whole cell lysates. The lane on the left is treated with the antigen-specific peptide.



**Western blot analysis of Phospho-Tyrosine Hydroxylase (Ser31) expression in various lysates**



AF3113 at 1/200 staining Rat brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



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AF3113 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.

**IMPORTANT:** For western blot, incubate membrane with diluted Ab in 5% w/v milk, 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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