Tyrosine Hydroxylase (Phospho-Ser19) Antibody

#11329

Catalog Number: 11329-1, 11329-2

Amount: 50μg/50μl, 100μg/100μl

Swiss-Prot No. :P07101

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl,0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20℃/1 year

Immunogen: The antiserum was produced against synthesized phosphopeptide derived from Human Tyrosine Hydroxylase around the phosphorylation site of serine19(A-V-S$_P$-E-Q).

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

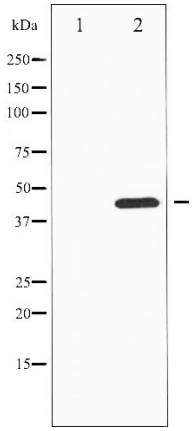
Specificity/Sensitivity: Tyrosine Hydroxylase (Phospho-Ser19) Antibody detects endogenous levels of Tyrosine Hydroxylase only when phosphorylated at serine19.

Reactivity: Human,Mouse,Rat

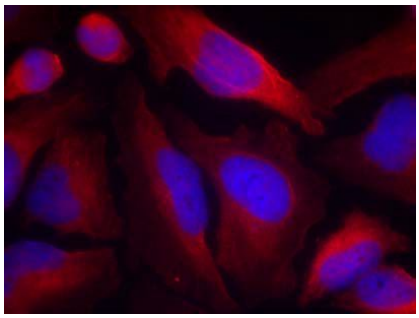
Applications:

Predicted MW: 45 kd

WB: 1:500~1:1000 IHC: 1:50~1:200 IF: 1:100~1:200



Western blot analysis of Tyrosine Hydroxylase phosphorylation expression in PC12 whole cell lysates,The lane on the left is treated with the antigen-specific peptide.



Immunofluorescence staining of methanol-fixed HeLa cells
using Tyrosine Hydroxylase (Phospho-Ser19) Antibody(#11329, Red).

Background :

The protein encoded by Tyrosine Hydroxylase is involved in the conversion of tyrosine to dopamine. It is the rate-limiting enzyme in the synthesis of catecholamines, hence plays a key role in the physiology of adrenergic neurons. Mutations in this gene have been associated with autosomal recessive Segawa syndrome. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.

References:

Vazin T, et al. Stem Cells. 2008 Jun;26(6):1517-25
Pistocchi A, et al. BMC Dev Biol. 2008 Mar 10;8:27
Fukakusa A, et al. J Pharmacol Sci. 2008 Feb;106(2):321-4.