ARG30212
Phospho Tyrosine Hydroxylase Antibody Panel (Total, pS31, pS40)

Package: 1 kit
Store at: -20°C

Component

Cat. No.	Component Name	Host clonality	Reactivity	Application	Package
ARG52464	anti-Tyrosine Hydroxylase phospho (Ser40) antibody	Rabbit pAb	Hu, Mamm, Ms, Rat	ICC/IF, IHC-P, WB	50 µl
ARG52463	anti-Tyrosine Hydroxylase phospho (Ser31) antibody	Rabbit pAb	Ms, Rat	ICC/IF, IHC-P, WB	50 µl
ARG52461	anti-Tyrosine Hydroxylase antibody	Rabbit pAb	Hu, Mamm, Ms, Rat	ICC/IF, IHC-P, IHC-Fr, WB	50 µl
ARG65351	Goat anti-Rabbit IgG antibody (HRP)	Goat pAb	Rb	ELISA, IHC-P, WB	50 µl

Summary

Product Description	Tyrosine Hydroxylase (TH) is an enzyme responsible for catalyzing the conversion of L-tyrosine to L-DOPA, a precursor for an important neurotransmitter Dopamine. TH activity is regulated by its phosphorylation. The phosphorylation of TH at Ser31 and Ser40 residues was found to enhance dopamine synthesis in primary neurons. Daubner, Le and Wang. 2011. Arch Biochem Biophy 508(1):1-12 Kobori et al. 2004. J Biol Chem 279(3): 2182-91 Related news: Astrocyte-to-neuron conversion for Parkinson's disease treatment
Target Name	Tyrosine Hydroxylase
Alternate Names	Phospho Tyrosine Hydroxylase antibody; Tyrosine Hydroxylase antibody; Tyrosine Hydroxylase phospho (Ser31) antibody; Tyrosine Hydroxylase phospho (Ser40) antibody

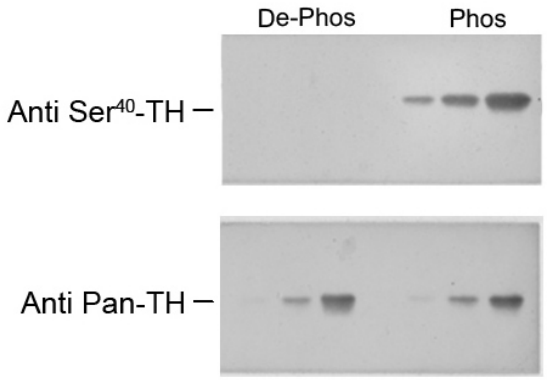
Properties

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

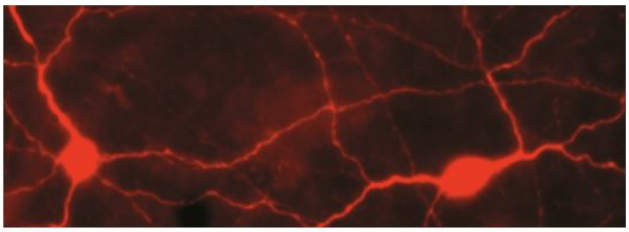
Gene Full Name	Antibody Panel for Phospho Tyrosine Hydroxylase (Total, pS31, pS40)
Highlight	Related Product: anti-Tyrosine Hydroxylase phospho (Ser40) antibody; anti-Tyrosine Hydroxylase phospho (Ser31) antibody; anti-Tyrosine Hydroxylase antibody;

Images



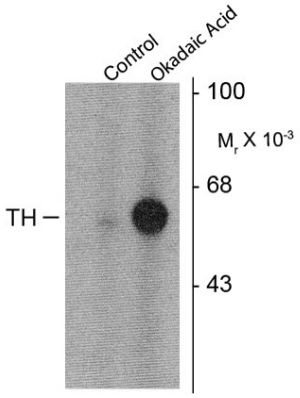
ARG52464 anti-Tyrosine Hydroxylase phospho (Ser40) antibody WB image

Western blot: Recombinant phospho- and dephospho-Tyrosine Hydroxylase. The blots were stained with anti-pan Tyrosine Hydroxylase antibody and ARG52464 anti-Tyrosine Hydroxylase phospho (Ser40) antibody.



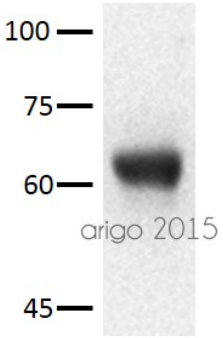
ARG52464 anti-Tyrosine Hydroxylase phospho (Ser40) antibody IHC image

Immunohistochemistry: Light-stimulated Rabbit retina stained with ARG52464 anti-Tyrosine Hydroxylase phospho (Ser40) antibody showing labeling of TH when phosphorylated at Ser40.



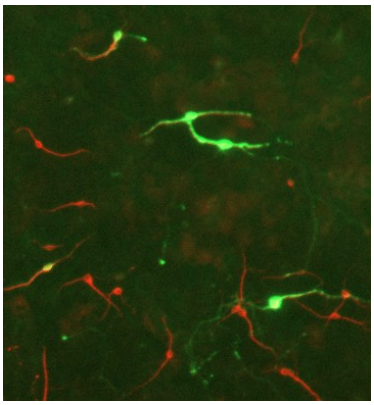
ARG52463 anti-Tyrosine Hydroxylase phospho (Ser31) antibody WB image

Western blot: PC-12 cells incubated in the absence (Control) and presence of okadaic acid (OA, 1 µM for 60 min) showing specific immunolabeling of the ~60 kDa TH phosphorylated at Ser31 stained with ARG52463 anti-Tyrosine Hydroxylase phospho (Ser31) antibody.



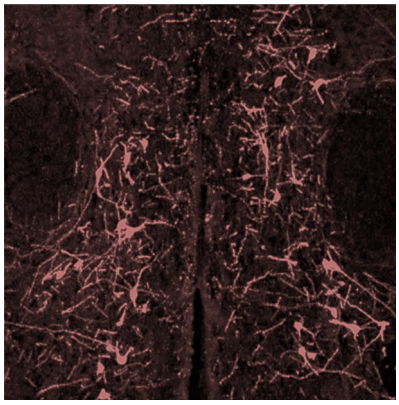
ARG52461 anti-Tyrosine Hydroxylase antibody WB image

Western blot: 30 µg of Mouse brain tissue lysate stained with ARG52461 anti-Tyrosine Hydroxylase antibody at 1:500 dilution.



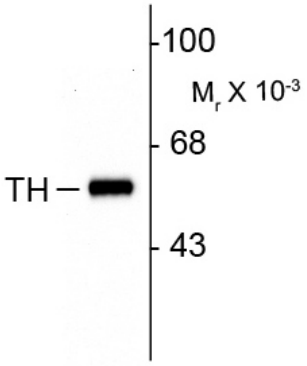
ARG52461 anti-Tyrosine Hydroxylase antibody ICC/IF image

Immunofluorescence: E17 Rat midbrain mixed neuronal cultures stained with ARG52461 anti-Tyrosine Hydroxylase antibody (green) and ARG52328 anti-MAP2 antibody (red).



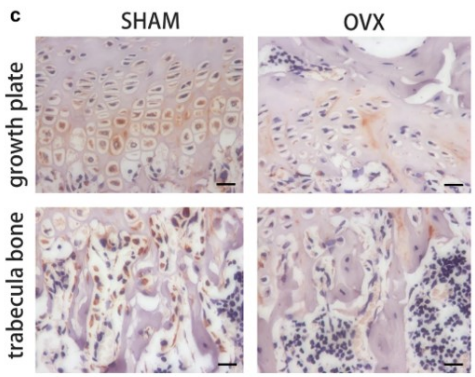
ARG52461 anti-Tyrosine Hydroxylase antibody IHC-Fr image

Immunohistochemistry: Frozen section of Mouse brain stained with ARG52461 anti-Tyrosine Hydroxylase antibody at 1:1000 dilution.



ARG52461 anti-TH antibody WB image

Western Blot: 10 µg of rat caudate lysate showing specific immunolabeling of the ~60k TH protein stained with TH antibody (ARG52461).



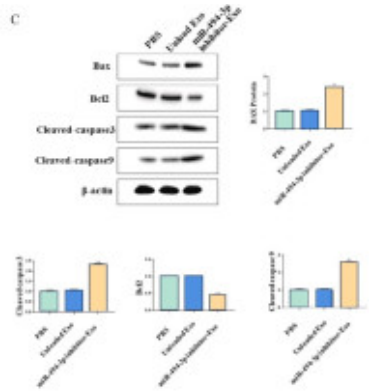
ARG65351 Goat anti-Rabbit IgG antibody (HRP) IHC-P image

From Yu-Qian Song et al. J Mol Med (Berl) (2022), doi: 10.1007/s00109-021-02165-0, Fig. 5.c.

ARG65351 Goat anti-Rabbit IgG antibody (HRP) WB image

Western blot: HK2 stained with ARG66421 anti-CXCL12 / SDF1 antibody [SQab18123] and ARG10112 anti-GAPDH antibody [6C5] and secondary antibody used ARG65351 Goat anti-Rabbit IgG antibody (HRP).

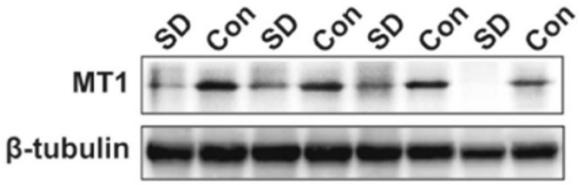
From Zhou Y et al. Central European Journal of Immunology (2022), doi: 10.5114/ceji.2022.115628, Fig. 2. E.



ARG65351 Goat anti-Rabbit IgG antibody (HRP) WB image

Western blot: Gastric cancer cells stained with ARG66247 anti-Bax antibody, ARG55188 anti-Bcl 2 antibody, ARG57512 anti-Caspase 3 (cleaved) antibody and ARG62346 anti-beta Actin antibody [BA3R]. Secondary Antibody stained with ARG65351 Goat anti-Rabbit IgG antibody (HRP).

From Limin Zhang et al. Heliyon (2024), doi: 10.1016/j.heliyon.2024.e30803, Fig. 4. C.



ARG65351 Goat anti-Rabbit IgG antibody (HRP) WB image

Western blot: Rat placental stained with ARG57589 anti-MTNR1A antibody at 1:1000 dilution, ARG65351 Goat anti-Rabbit IgG antibody (HRP) at 1:5000 dilution.

From Jinzhi Li et al. J Reprod Immunol. (2023), doi: 10.1016/j.jri.2023.104166, Fig. 2.B.