

**Anti-Conjugated L-Dihydroxyphenylalanine (L-DOPA)
RABBIT POLYCLONAL**

Catalog Number: AB-T067
Quantity: 50 microliters
Format: Lyophilized and reconstituted with deionized water / 50% glycerol
Host: Rabbit
Isotype: IgG
Immunogen: Synthetic L-DOPA conjugated to bovine serum albumin by glutaraldehyde

Specificity and Preparation:

Antiserum previously preabsorbed on protein carriers and purified by ammonium sulfate precipitation. This antibody targets conjugated L-dihydroxyphenylalanine (L-DOPA). **This antibody does not recognize free L-DOPA.**

Using a conjugate L-DOPA-Glutaraldehyde-BSA, antibody specificity was performed with an ELISA test by competition experiments with the following compounds:

COMPOUND	CROSS REACTIVITY §
L-DOPA-G-BSA	1
alpha-methyl-L-DOPA-G-BSA	1/2,200
3-O-mehtyl-L-DOPA-G-BSA	1/50,000
Dopamine-G-BSA	1/>50,000
Noradrenaline-G-BSA	1/>50,000
Tyrosine-G-BSA	1/>50,000

G = Glutaraldehyde

§ L-DOPA-G-BSA concentration/other conjugated catecholamine concentration at half displacement.

Usage and Storage:

Applications include ELISA (1/1,000-1/5,000); immunocytochemistry; immunohistochemistry (1/1,000-1/5,000); immunoblotting (western blot 1/1,000-1/2,000). Fixation of tissue for use with these antibodies should be done with glutaraldehyde. The use of paraformaldehyde in conjunction with glutaraldehyde may improve staining results. Store the antibody at 4°C for one month or -20°C in undiluted aliquots for up to one year. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

Available Control(s): L-DOPA-G-BSA

References:

1. Mons N, Danel N, Geffard M (1988) Visualization of L-dihydroxyphenylalanine in rat brain by using specific antibodies. *Brain Res* 451(1-2):403-407.
2. Okamura H, Kitahama K, Mons N, Iбата Y, Jouvet M, Geffard M (1988) L-dopa-immunoreactive neurons in the rat hypothalamic tuberal region. *Neurosci Lett* 95(1-3):42-46.
3. Kitahama K, Mons N, Okamura H, Jouvet M, Geffard M (1988) Endogenous L-dopa, its immunoreactivity in neurons of midbrain and its projection fields in the cat. *Neurosci Lett* 95(1-3):47-52.
4. Mons N, Tison F, Geffard M (1989) Identification of L-DOPA-dopamine and L-DOPA cell bodies in the rat mesencephalic dopaminergic cell systems. *Synapse* 4:99-105.
5. Tison F, Mons N, Rouet-Karama S, Geffard M, Henry P (1989) Endogenous L-dopa in the rat dorsal vagal complex: an immunocytochemical study by light and electron microscopy. *Brain Res* 497(2):260-270.

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