ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

Aromatic L-Amino Acid Decarboxylase/DOPA Decarboxylase/DDC Antibodies

Cat # DDC12-S	Rabbit Anti-Human DDC Antiserum # 2	**SIZE**: 100ul
Cat # DDC12-A	Rabbit Anti-Human DDC IgG #2, aff pure	**SIZE**: 100 ug
Cat # DDC12-P	Human DDCcontrol/blocking peptide #2	**SIZE**: 100 ug

DDC (EC 1.1.128) belongs to the family group II Decarboxylase (DDC, GAD, HDC and TYRD). DDC catalyzes the formation of tryptamine from L-tyrosine. It also acts on 5-hydroxy-LO-tryptophan and dihydroxy-L-Phenylalanine (DOPA). Human DDC (480 aa, chromosome 7p11) is a homodimer in the native state. it requires pyridoxal phosphate as a cofactor.

Source of Antigen, Antibodies

Antigen	16-aa peptide of Human DDC (1) designated Cat # DDC12-P. **Epitope location** ~ N-terminus
Ab Host/type	Rabbit, Polyclonal, Aff pure IgG (**cat #DDC12-A**)purified over the antigen column
2ab	Cat # 20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available
-ve control	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as –ve control

Form & Storage of Antibodies/Peptide Control

Antiserum (unpurified)
100ul solution lyophilized powder
Supplied in Buffer: 0.05% azide
Reconstitute powder in 100 ul PBS

Affinity pure IgG
100 ug/100ul solution lyophilized powder
Supplied in **Buffer**: PBS+0.1% BSA
Reconstitute powder in PBS at 1mg/ml

Control/blocking peptide
100 ug/100 ul solution lyophilized powder
Supplied in Buffer: PBS pH 7.5,
Reconstitute powder in PBS at 1 mg/ml.

Storage
Short-term: unopened, undiluted liquid vials at 20°C and powder at 4°C or -20°C..

Long-term: at –20°C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at –20°C or below.
Shipping: 4°C for solutions and room temp for powder

Recommended Usage

Western Blotting (1:1K-5K using Chemiluminescence technique). DDC is ~50 kDa.

ELISA: Control peptide can be used to coat ELISA plates at 1 ug/ml and detected with antibodies (1:10-50K).

Histochemistry: not tested.

Specificity & Cross-reactivity

The 16 AA human DDC12-P peptide shows homology with rat/ mouse/ pig (93%), and bovine/ guinea pig (87%). Antibody reacts with DDC from human, bovine, monkey, sheep, rabbit, dog, guinea pig, and rat. Crossreactivity with other species is not known. Control peptide, because of its low mol. Wt (<3 kDa), is not suitable for Western. It should be used for ELISA or antibody blocking experiments (use 5-10 ug control peptide per 1 ug of aff pure IgG or 1 ul antiserum) to confirm antibody specificity (see detailed protocol at:the web site).

General References:

Schrere LJ et al (1992) Genomics 13, 469-471; Tanaka T et al (1989) PNAS 86, 8142; Ishii, S et al (1996) J Biochem. 120, 369-376.

Citations of ADI's antibodies for DR (see updated list at: The web site)

*This product is for In vitro research use only.

Related material available from ADI

Anti-Rabbit IgG-HRP Conjugate and ECL Reagents

NuGlo Chemiluminescent Substrate Kit

Western Blot Recycling Kit (Strips blots in 5 minutes)

DDC12-S-A-P 71219S

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