

Product Specification Sheet

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

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

<b>Antigen</b>	16-aa peptide of Human DDC (1) designated Cat # DDC12-P. <b>Epitope location</b> ~ N-terminus
<b>Ab Host/type</b>	Rabbit, Polyclonal, Aff pure IgG ( <b>cat #DDC12-A</b> ) purified over the antigen column
<b>2ab</b>	Cat # 20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available)
<b>-ve control</b>	# 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

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