ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

Dopamine beta-Hydroxylase (DBH) Antibodies

Cat # DBH11-M Mouse Monoclonal Anti-Bovine DBH ascites # 1 **SIZE**: 100 ul

Dopamine beta hydroxylase (DBH) or Dopamine beta monooxygenase belongs to the copper type II, ascorbate-dependent monooxygenase family. DBH mediates conversion of dopamine to noradrenaline. It requires PQQ, copper, and ascorbate for enzyme activity. DBH exists as both in a soluble form (in chromaffin granules) and as membrane bound anchored by its signal peptide. Its activity is enhanced by nerve growth factor, reserpine, acetylcholine, and glucocorticoids. There are two known forms of the enzymes: DBH-A and DBH-B, which differ in one position.

Bovine DBH is 610 aa protein (mouse 621 aa; rat 620 aa, human 603 aa. Human DBH is 603 aa protein (mouse 621 aa; rat 620 aa, bovine 610 aa). DBH also contains a signal peptide that is cleaved in the soluble form.

Source of Antigen, Antibodies

Antigen	Bovine DBH protein
Ab Host/type	Mouse, Monoclonal (IgG1), Unpurified ascites (**cat #DBH11-M**)
2-ab	**Goat Anti-Mouse IgG-HRP** cat # 40320 (AP, biotin, FITC conjugates also available)
-ve control	**# 20008-1, Mouse (non-immune) IgG, purified, suitable for ELISA, Western, IHC as –ve control**

Form & Storage of Antibodies/Peptide Control

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

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

Specificity & Cross-reactivity

Anti-bovine DBH reacts with bovine, mouse and rat. Other species not tested.

General References:

Kobayashi k et al (1989) Nucl Acid res. 17, 1089-1102; Lamouroux A et al (1987) EMBO J 6, 3931-3937; McMahon A et al (1990) J. Neurosci. Res. 25, 395-404; Nakano T et al (1992) BBRC 189, 590-599; Neurosci. Lett (1990) 120, 141-145.

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

DBH11-M 71219S

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