

## Mouse Monoclonal Antibody to NT5E

**Catalogue Number** sAP-0306

**Target Molecule** **Name:** NT5E

**Aliases:** eN; NT5; CD73

**MW:** 70kDa

**Entrez Gene ID: 4907**

**Description** 5'-nucleotidase, ecto (NT5E), also known as CD73 (Cluster of Differentiation 73). Ecto-5-prime-nucleotidase (5-prime-ribonucleotide phosphohydrolase; EC 3.1.3.5) catalyzes the conversion at neutral pH of purine 5-prime mononucleotides to nucleosides, the preferred substrate being AMP. The enzyme consists of a dimer of 2 identical 70-kD subunits bound by a glycosyl phosphatidyl inositol linkage to the external face of the plasma membrane. The enzyme is used as a marker of lymphocyte differentiation. Consequently, a deficiency of NT5 occurs in a variety of immunodeficiency diseases (e.g., see MIM 102700, MIM 300300). Other forms of 5-prime nucleotidase exist in the cytoplasm and lysosomes and can be distinguished from ecto-NT5 by their substrate affinities, requirement for divalent magnesium ion, activation by

**Immunogen** Purified recombinant fragment of NT5E expressed in E. Coli.

**Recitative Species** Human

**Clone** MM1D7;

**Size and Concentration** 100µg/1mg/ml

**Supplied as** Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% sodium azide.

**Reconstitution/Storages** Reconstituted with 100µl sterile DI H<sub>2</sub>O, at stored at 4°C or -20°C for short or long term storage

**Applications** ELISA: 1 to 10000; IHC: 1 to 200 - 1 to 1000

**Shipping** Regular FEDEX overnight shipment (ambient temperature)

**Reference** 1. Oncol Rep. 2007 Jun;17(6):1341-6. ; 2. Neurochem Int. 2003 Dec;43(7):621-8. ;

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**