

---

## **ALDH1A1 (5A11) Antibody**

**Subcategory:** Mouse Monoclonal Antibody

**Cat. No.:** 253061

**Unit:** 0.1 ml

**Description:**

ALDH1A1 (Aldehyde dehydrogenase family 1 member A1) is an aldehyde dehydrogenase. It is oxidizing a wide variety of aliphatic aldehydes (retinaldehyde, acetaldehyde, etc.) to the corresponding carboxylic acids (retinoic acid, acetic acid, etc.). ALDH1A1 is involved in retinoic acid (RA) synthesis during vertebrate embryogenesis. It is known mesencephalic dopaminergic marker. Therefore it is studied in Parkinson's Disease (PD) since it is being expressed in the the A9 dopaminergic (DA) neuronal group projecting to the dorsal striatum; this is the most vulnerable site in PD. ALDH1A1 is expressed in the epithelium of many organs, including brain, liver, testis, eye lens and cornea. The retinoic acid produced by ALDH1A1 is also important for the differentiation of hematopoietic stem cells.

**Isotype:** Mouse IgG1

**Applications:** WB, IHC

**Species Reactivity:** H

**Format:** Each vial contains 0.1 ml ascitic fluid with 0.03% sodium azide.

**Alternate Names:** Retinal dehydrogenase 1; RALDH 1; RaIDH1; ALDH-E1; ALHDII; Aldehyde dehydrogenase family 1 member A1; Aldehyde dehydrogenase, cytosolic; ALDC; ALDH1; PUMB1; ALDH1A1

**Accession No.:** P00352

**Antigen:** Purified recombinant fragment of human ALDH1A1 expressed in E. coli.

**Application Notes:** WB: 1:200-1:1000; IHC: 1:200-1:1000

**Storage:** Store at 4°C for short term use only. Store at -20°C for storage over 1 month. Product is guaranteed 6 months from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.