

## Product datasheet for **TA306638**

### ALDH3A1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1 - 2 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Aldh3A1 antibody was raised against a 13 amino acid peptide near the carboxy terminus of the human Aldh3A1.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	aldehyde dehydrogenase 3 family member A1
Database Link:	<a href="#">NP_000682</a> <a href="#">Entrez Gene 11670 Mouse</a> <a href="#">Entrez Gene 25375 Rat</a> <a href="#">Entrez Gene 218 Human</a> <a href="#">P30838</a>



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**Background:**

Aldh3A1 is a member of the aldehyde dehydrogenase superfamily, a group of NAD(P)(+)-dependent enzymes that catalyze the oxidation of a wide spectrum of aliphatic and aromatic aldehydes. Aldh3A1 is highly expressed in stomach and even more strongly in cornea, representing between 5 to 50% of the water soluble protein fraction in mammalian corneas. It is thought that Aldh3A1 acts to protect the cornea from UV-induced oxidative stress by not only detoxification of reactive aldehydes by also through the direct absorption of UV energy. However, corneas from Aldh3A1-null mice are indistinguishable from those from wild-type mice; mice lacking both Aldh3A1 and Aldh1A1 showed increased cataract formation following UVB exposure, suggesting that Aldh1A1 may be able to compensate for the loss of Aldh3A1. At least two isoforms of Aldh3A1 are known to exist. This antibody is predicted to have no cross-reactivity to Aldh3A2.

**Synonyms:**

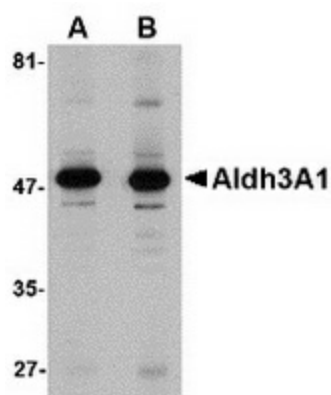
ALDH3; ALDHIII

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Drug metabolism - cytochrome P450, Glycolysis / Gluconeogenesis, Histidine metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Phenylalanine metabolism, Tyrosine metabolism

**Product images:**

Western blot analysis of Aldh3A1 in human stomach lysate with Aldh3A1 antibody at (A) 1 and (B) 2 ug/ml.