Recombinant ALDH1A1 Monoclonal Antibody

catalog number: **E-AB-81434**

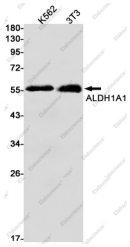
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Mouse
Immunogen	A synthetic peptide of human ALDH1A1
Host	Rabbit
Isotype	Rabbit IgG
Clone	C223220
Purification	Affinity Purified
Buffer	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.05% stabilizer and 0.05% protective protein.

Applications	Recommended Dilution
WB	1:500-1:1000
IHC	1:20-1:100

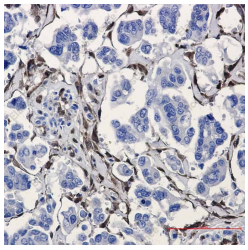
Data



Western blot detection of ALDH1A1 in K562,3T3 cell lysates using ALDH1A1 Rabbit mAb(1:1000 diluted).Predicted band size:55kDa.Observed band size:55kDa.

Observed-MW:55 kDa

Calculated-MW:55 kDa



Immunohistochemistry of ALDH1A1 in paraffin-embedded Human Cholangiocarcinoma using ALDH1A1 Rabbit mAb at dilution 1:20

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended.

Background

ALDH1A1(Aldehyde dehydrogenase family 1 member A1),also named as ALDC,ALDH1 and PUMB1,belongs to the aldehyde dehydrogenase family. The ALDH1A1 gene encodes a liver cytosolic isoform of acetaldehyde dehydrogenase,an enzyme involved in the major pathway of alcohol metabolism after alcohol dehydrogenase. ALDH1A1 plays a critical role in protection against oxidative stress-induced cytotoxicity in lens epithelial cells. And it is important for multiple biological activities including drug resistance,cell differentiation,and oxidative stress response. As a novel cancer stem cell marker,ALDH1A1 can be used for tumors whose corresponding normal tissues express ALDH1A1 in relatively restricted or limited levels such as breast,lung,ovarian or colon cancer.

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