

Rabbit ADH5 Polyclonal Antibody | anti-ADH5 antibody

ADH5 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289716	Rabbit	Human (Predicted Reactivity: Rabbit)	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

ADH5; Polyclonal Antibody; ADH5 Antibody (Center); Alcohol dehydrogenase class-3; Alcohol dehydrogenase 5; Alcohol dehydrogenase class chi chain; Alcohol dehydrogenase class-III; Glutathione-dependent formaldehyde dehydrogenase; FALDH; FDH; GSH-FDH; 111-; S-(hydroxymethyl)glutathione dehydrogenase; ADH5 HGNC:253; ADHX; anti-ADH5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Rabbit)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ADH5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 212-239 amino acids from the Central region of human ADH5.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.29 (varies by lot)
Sequence Positions	212-239
Sequence Length	374
Applicable Applications for anti-ADH5 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of K562 cells using ADH5 Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

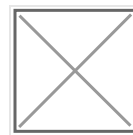


IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human hepatocarcinoma with ADH5 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

**WB (Western Blot)**

Western blot analysis of ADH5 (arrow) using rabbit polyclonal ADH5 Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the ADH5 gene.

**WB (Western Blot)**

Western blot analysis of ADH5 Antibody (Center) in K562 cell line lysates (35ug/lane). ADH5 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-ADH5 antibody	ADH5 is a member of the alcohol dehydrogenase family. Members of this family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. This protein forms a homodimer. It has virtually no activity for ethanol oxidation, but exhibits high activity for oxidation of long-chain primary alcohols and for oxidation of S-hydroxymethyl-glutathione, a spontaneous adduct between formaldehyde and glutathione. This enzyme is an important component of cellular metabolism for the elimination of formaldehyde, a potent irritant and sensitizing agent that causes lacrymation, rhinitis, pharyngitis, and contact dermatitis.
Product Categories/Family for anti-ADH5 antibody	Metabolism ; Signal Transduction
References	Martins-de-Souza,D., et.al., Eur Arch Psychiatry Clin Neurosci 259 (3), 151-163 (2009) Iborra,F.J., et.al., J. Histochem. Cytochem. 40 (12), 1865-1878 (1992)

NCBI AND UNIPROT INFORMATION

NCBI GI #	71565154
NCBI GeneID	128
NCBI Accession #	NP_000662.3
NCBI GenBank Nucleotide #	NM_000671.4
UniProt Accession #	P11766 ; Q6FHR2
Molecular Weight	39724
NCBI Official Full Name	alcohol dehydrogenase class-3
NCBI Official Synonym Full Names	alcohol dehydrogenase 5 (class III), chi polypeptide
NCBI Official Symbol	ADH5
NCBI Official Synonym Symbols	FDH; ADHX; ADH-3; FALDH; GSNOR; GSH-FDH
NCBI Protein Information	alcohol dehydrogenase class-3
UniProt Protein Name	Alcohol dehydrogenase class-3
UniProt Gene Name	ADH5
UniProt Synonym Gene Names	FALDH; FDH; GSH-FDH
UniProt Entry Name	ADHX_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/adh5-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/289716>