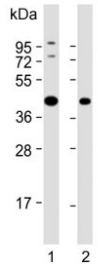
ADH5 Antibody / Alcohol dehydrogenase 5 (F54308)

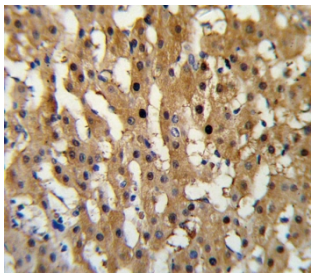
Catalog No.	Formulation	Size
F54308-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54308-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

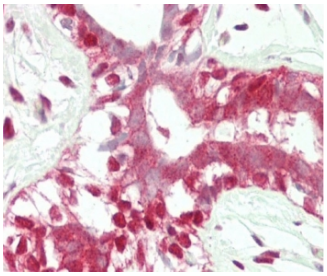
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P11766
Localization	Cytoplasmic
Applications	Western Blot : 1:500-1:2000 Immunohistochemistry (FFPE) : 1:25 Flow Cytometry : 1:25 (1x10e6 cells)
Limitations	This ADH5 antibody is available for research use only.



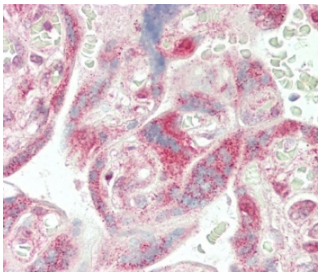
Western blot testing of human 1) K562 and 2) SH-SY5Y cell lysate with ADH5 antibody. Predicted molecular weight ~40 kDa.



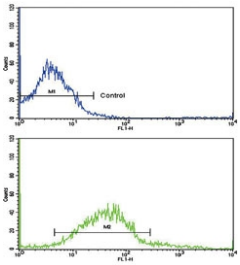
IHC testing of FFPE human hepatocarcinoma tissue with ADH5 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human breast tissue with ADH5 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human placental tissue with ADH5 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Flow cytometry testing of fixed and permeabilized human K562 cells with ADH5 antibody; Blue=isotype control, Green= antibody.

Description

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.

Application Notes

The stated application concentrations are suggested starting points. Titration of the ADH5 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 212-239 from the human protein were used as the immunogen for the ADH5 antibody.

Storage

Aliquot the ADH5 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.