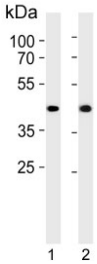
ADH7 Antibody (F55038)

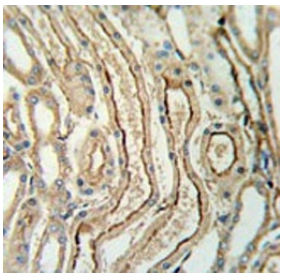
Catalog No.	Formulation	Size
F55038-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F55038-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

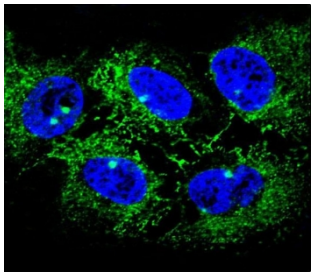
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P40394
Localization	Cytoplasmic
Applications	Western Blot : 1:500-1:1000 Immunofluorescence : 1:10-1:50 Flow Cytometry : 1:10-1:50 (1x10e6 cells) Immunohistochemistry (FFPE) : 1:50-1:100
Limitations	This ADH7 antibody is available for research use only.



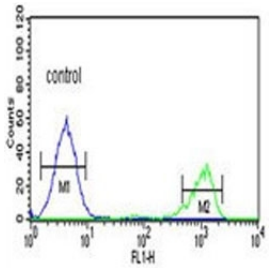
Western blot testing of human 1) HepG2 and 2) SW480 cell lysate with ADH7 antibody. Predicted molecular weight ~41 kDa.



IHC testing of FFPE human lung tissue with ADH7 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Immunofluorescent staining of human NCI-H460 cells with ADH7 antibody (green) and DAPI nuclear stain (blue).



Flow cytometry testing of human K562 cells with ADH7 antibody; Blue=isotype control, Green= ADH7 antibody.

Description

This gene encodes class IV alcohol dehydrogenase 7 mu or sigma subunit, which 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. The enzyme encoded by this gene is inefficient in ethanol oxidation, but is the most active as a retinol dehydrogenase; thus it may participate in the synthesis of retinoic acid, a hormone important for cellular differentiation. The expression of this gene is much more abundant in stomach than liver, thus differing from the other known gene family members.

Application Notes

The stated application concentrations are suggested starting points. Titration of the ADH7 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 318-346 from the human protein was used as the immunogen for the ADH7 antibody.

Storage

Aliquot the ADH7 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.