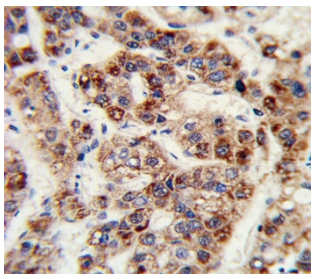
Ornithine transcarbamylase Antibody / OTCase / OTC (F55100)

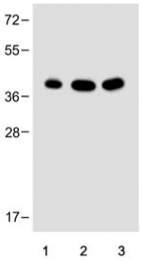
Catalog No.	Formulation	Size
F55100-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F55100-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

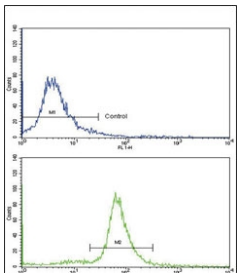
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P00480
Applications	Western Blot : 1:1000-1:2000 Immunohistochemistry (FFPE) : 1:10-1:50 Flow Cytometry : 1:10-1:50 per million cells in 0.1ml
Limitations	This Ornithine transcarbamylase antibody is available for research use only.



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



Western blot testing of 1) human liver, 2) mouse liver and 3) rat liver tissue lysate with Ornithine transcarbamylase antibody. Predicted molecular weight ~40 kDa.



Flow cytometry testing of fixed and permeabilized human ATDC5 cells with Ornithine transcarbamylase antibody; Blue=isotype control, Green= Ornithine transcarbamylase antibody.

Description

Ornithine transcarbamylase is an enzyme that is responsible for catalyzing the reaction between ornithine and carbamoyl phosphate, ultimately forming citrulline. Citrulline then goes on to participate in the urea cycle, where it helps convert toxic ammonia into urea, which can be safely excreted by the body. A deficiency in this enzyme can lead to a rare genetic disorder known as ornithine transcarbamylase deficiency. Individuals with this condition are unable to properly metabolize ammonia, leading to a buildup of toxic levels in the blood. This can result in a range of symptoms, from mild to severe, including fatigue, seizures, and even coma if left untreated.

Application Notes

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

Immunogen

A portion of amino acids 71-98 from the human protein was used as the immunogen for the Ornithine transcarbamylase antibody.

Storage

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