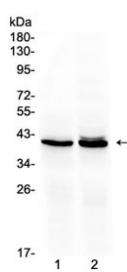


OTC Antibody / Ornithine carbamoyltransferase (R32654)

Catalog No.	Formulation	Size
R32654	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Predicted Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
UniProt	P00480
Applications	Western Blot : 0.5-1ug/ml
Limitations	This OTC antibody is available for research use only.



Western blot testing of 1) rat liver and 2) mouse liver lysate with OTC antibody at 0.5ug/ml. Predicted molecular weight ~40 kDa.

Description

Ornithine transcarbamylase (OTC) (also called ornithine carbamoyltransferase) is an enzyme that catalyzes the reaction between carbamoyl phosphate (CP) and ornithine (Orn) to form citrulline (Cit) and phosphate (Pi). This nuclear gene encodes a mitochondrial matrix enzyme. Missense, nonsense, and frameshift mutations in this enzyme lead to ornithine transcarbamylase deficiency, which causes hyperammonemia. Since the gene for this enzyme maps close to that for Duchenne muscular dystrophy, it may also play a role in that disease.

Application Notes

Optimal dilution of the OTC antibody should be determined by the researcher.

Immunogen

Amino acids 33-70 (NKVQLKGRDLLTLKNFTGEEIKYMLWLSADLKFRINKQK) from the human protein were used as the immunogen for the OTC antibody.

Storage

After reconstitution, the OTC antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.