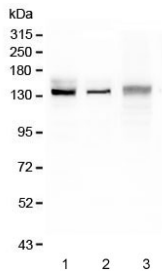
CP Antibody / Ceruloplasmin (R32261)

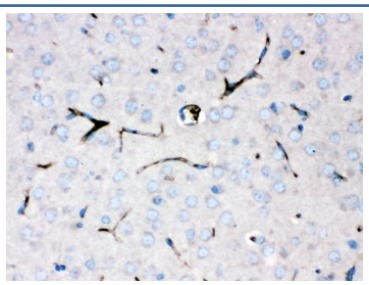
Catalog No.	Formulation	Size
R32261	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

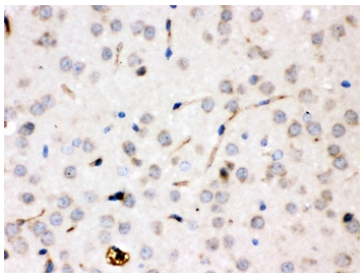
Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	Q61147
Applications	Western Blot : 0.1-0.5ug/ml IHC (FFPE) : 0.5-1ug/ml
Limitations	This CP antibody is available for research use only.



Western blot testing of 1) rat liver, 2) mouse liver and 3) mouse HEPA1-6 lysate with CP antibody. Expected molecular weight ~130 kDa.



IHC testing of FFPE mouse brain with CP antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



IHC testing of FFPE rat brain with CP antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.

Description

Ceruloplasmin (or Caeruloplasmin) is a ferroxidase enzyme that in humans is encoded by the CP gene. It is mapped to 3q23-q25. The protein encoded by this gene is a metalloprotein that binds most of the copper in plasma and is involved in the peroxidation of Fe(II)transferrin to Fe(III) transferrin. Mutations in this gene cause aceruloplasminemia, which results in iron accumulation and tissue damage, and is associated with diabetes and neurologic abnormalities. Two transcript variants, one protein-coding and the other not protein-coding, have been found for this gene.

Application Notes

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

Immunogen

Amino acids 20-258 of mouse Ceruloplasmin were used as the immunogen for the CP antibody.

Storage

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