

**Ferritin Heavy Chain (PT0446R) PT® Rabbit mAb**

<b>Catalog No :</b>	YM8285
<b>Reactivity :</b>	Mouse; Rat;
<b>Applications :</b>	WB;IHC;IF;IP;ELISA
<b>Target :</b>	Ferritin heavy chain
<b>Fields :</b>	>>Ferroptosis;>>Necroptosis;>>Mineral absorption
<b>Gene Name :</b>	FTH1
<b>Protein Name :</b>	Ferritin heavy chain
<b>Human Gene Id :</b>	2495
<b>Human Swiss Prot No :</b>	P02794
<b>Mouse Gene Id :</b>	14319
<b>Mouse Swiss Prot No :</b>	P09528
<b>Rat Gene Id :</b>	25319
<b>Rat Swiss Prot No :</b>	P19132
<b>Specificity :</b>	endogenous
<b>Formulation :</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source :</b>	Monoclonal, rabbit, IgG, Kappa
<b>Dilution :</b>	IHC 1:200-1:1000;WB 1:2000-1:10000;IF 1:200-1:1000;ELISA 1:5000-1:20000;IP 1:50-1:200;
<b>Purification :</b>	Protein A

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Molecularweight :** 21kD

**Observed Band :** 21kD

**Cell Pathway :** Porphyrin and chlorophyll metabolism;

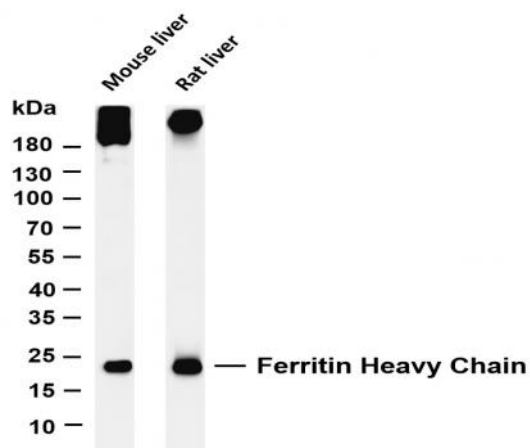
**Background :** This gene encodes the heavy subunit of ferritin, the major intracellular iron storage protein in prokaryotes and eukaryotes. It is composed of 24 subunits of the heavy and light ferritin chains. Variation in ferritin subunit composition may affect the rates of iron uptake and release in different tissues. A major function of ferritin is the storage of iron in a soluble and nontoxic state. Defects in ferritin proteins are associated with several neurodegenerative diseases. This gene has multiple pseudogenes. Several alternatively spliced transcript variants have been observed, but their biological validity has not been determined. [provided by RefSeq, Jul 2008],

**Function :** catalytic activity:4 Fe(2+) + 4 H(+) + O(2) = 4 Fe(3+) + 2 H(2)O.,function:Stores iron in a soluble, non-toxic, readily available form. Important for iron homeostasis.,function:Stores iron in a soluble, non-toxic, readily available form. Important for iron homeostasis. Has ferroxidase activity. Iron is taken up in the ferrous form and deposited as ferric hydroxides after oxidation. Also plays a role in delivery of iron to cells. Mediates iron uptake in capsule cells of the developing kidney.,miscellaneous:In human liver the heavy chain is the major chain.,online information:Ferritin entry,similarity:Belongs to the ferritin family.,similarity:Contains 1 ferritin-like diiron domain.,subunit:Oligomer of 24 subunits. There are two types of subunits: L (light) chain and H (heavy) chain. The major chain can be light or heavy, depending on the species and tissue type. The functional molecule fo

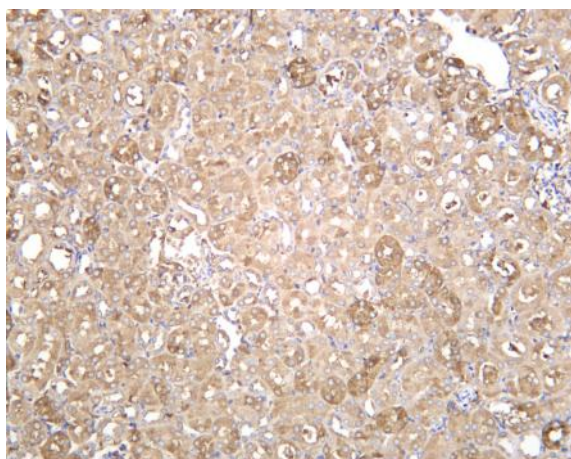
**Subcellular Location :** Cytoplasm

**Expression :** Expressed in the liver.

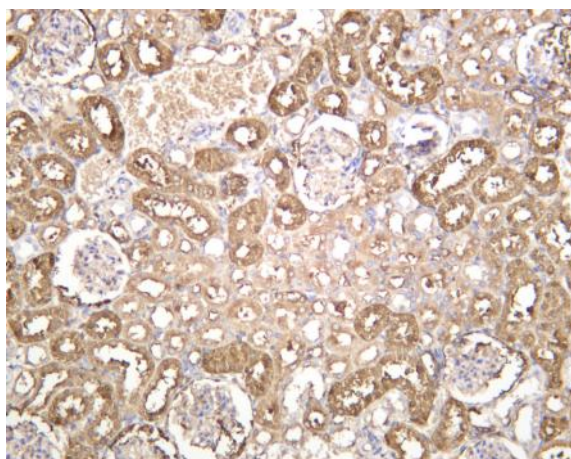
## Products Images



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Ferritin Heavy Chain (PT0446R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Mouse liver Lane 2: Rat liver Predicted band size: 21kDa Observed band size: 21kDa



Mouse kidney was stained with anti-Ferritin Heavy Chain (PT0446R) rabbit antibody



Rat kidney was stained with anti-Ferritin Heavy Chain (PT0446R) rabbit antibody