

Datasheet for ABIN7543450

Recombinant anti-Ferritin antibody



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Overview

Quantity:	100 µg
Target:	Ferritin (FE)
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This Ferritin antibody is un-conjugated
Application:	Immunoprecipitation (IP)

Product Details

Purpose:	Anti-Ferritin [AMB8LK], Mouse IgG1, kappa
Immunogen:	The original antibody was generated by immunizing female Balb/c mice with ferritin extracted from human spleen cells.
Clone:	AMB8LK
Isotype:	IgG1 kappa
Specificity:	This antibody binds human ferritin. This protein catalyzes the oxidation of ferrous iron(II) to ferric iron(III) and stores iron in a soluble, non-toxic, readily available form. Ferritin is important for iron homeostasis.
Characteristics:	Original Species of Ab: Mouse Original Format of Ab: IgG1

Product Details

Purification: Protein A affinity purified

Target Details

Target: Ferritin (FE)

Alternative Name: Ferritin ([FE Products](#))

Background: FTMT, FTL, FTH1, Ferritin mitochondrial, B8

UniProt: [Q8N4E7](#)

Pathways: [Transition Metal Ion Homeostasis](#)

Application Details

Application Notes: This antibody was capable of immunoprecipitating ferritin (PMID: 6817879). The original antibody binds human ferritin with a binding affinity of $K_d = 5.1 \text{ nM}$ (EP2193147). The thiolated version of this antibody was conjugated to maleimide-activated polylactide nanoparticles (NPs) to generate immunonanoparticles, which may carry drugs to desired overexpressing antigen cells potentially leading to improved drug therapy and reduced systemic adverse effects (PMID: 19835957). Preclinical studies showed that the immunoconjugate with 90Y has 98 % stability over 7 days. A very good pancreatic adenocarcinoma tumor targeting was observed especially with the Bz-DTPA-AMB8LK (PMID: 17383579)

Restrictions: For Research Use only

Handling

Concentration: 1 mg/mL

Buffer: PBS with 0.02 % Proclin 300.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.