Recombinant Ferritin, Heavy Chain (FTH) (Microglia Marker) Antibody

Rabbit Monoclonal Antibody [Clone FTH/13047R]

Catalog No	Format	Size
2495-RBM9-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2495-RBM9-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2495-RBM9-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

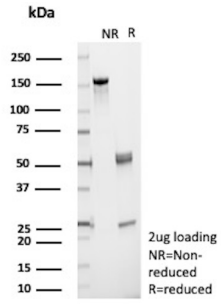
Applications	Tested Dillution	Note

Product Details

Clone	FTH/13047R
Gene Name	FTH1
Immunogen	Recombinant human FTH1 protein
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	21kDa
Cellular Localization	Cytoplasm
Species Reactivity	Human
Positive Control	Human liver tissue. Liver tissue lysate.

**Optimal dilution for a specific application should be determined.*

Product Images for Recombinant Ferritin, Heavy Chain (FTH) (Microglia Marker) Antibody



SDS-PAGE Analysis of Purified Ferritin Heavy Chain Recombinant Rabbit Monoclonal Antibody (FTH/13047R). Confirmation of Purity and Integrity of Antibody.

Specificity & Comments

Mammalian ferritins consist of 24 subunits made up of 2 types of poly-peptide chains, ferritin heavy chain and ferritin light chain, which each have unique functions. Ferritin heavy chains catalyze the first step in iron storage, the oxidationof FeI(II), whereas ferritin light chains promote the nucleation of ferrihydrite, enabling storage of Fe(III). The most prominent role of mammalian ferritins is to provide iron-buffering capacity to cells. In addition to iron buffering, heavy chain ferritin is also involved in the regulation of thymidine biosynthesis via increased expression of cytoplasmic serine hydroxymethyltransferase, which is a limiting factor in thymidylate synthesis in MCF-7 cells. Light chain ferritin is involved in cataracts by at least two mechanisms: hereditary hyperferritinemia cataract syndrome, in which light chain ferritin is overexpressed; and oxidative stress, an important factor in the development of aging-related cataracts. This antibody binds the H subunit of 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.

Supplied As

200ug/ml of Ab produced in CHO cell mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular, Immunology

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.