Datasheet for ABIN6938674

anti-Transferrin antibody (AA 311-445)

Go to Product page

Overview

Quantity:	100 µg
Target:	Transferrin (TF)
Binding Specificity:	AA 311-445
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Transferrin antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Coating (Coat), Staining Methods (StM)

Product Details

Immunogen:	Recombinant fragment (around aa 311-445) of human TF protein (exact sequence is proprietary)
Clone:	TF-3001
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	Transferrin (TF)
Alternative Name:	Transferrin (Early Marker of Oligodendrocytes) (TF Products)
Background:	Iron (Fe) is a tightly metabolically controlled mineral and growth factor present in all living cells.

Target Details

	Iron not bound in erythrocyte hemoglobin is transported by transferrin (Tf), the iron transport protein of vertebrate serum. The transferrin protein contains two homologous domains, each of which contain an Fe-binding site. The majority of transferrin is synthesized in the liver and secreted into the blood, but it is also produced in lower amounts in testis and brain as well as in oligodendrocytes, where transferrin is an early marker of oligodendrocyte differentiation. From the blood, transferrin is internalized by erythroblasts and reticulocytes upon binding the transferrin receptor (TfR), also designated CD71, through a system of coated pits and vesicles. After Fe release, transferrin is returned to the extracellular medium, where it can be reused. Defects in the transferrin gene results in atransferrinemia, a rare autosomal recessive disorder characterized by microcytic anemia and iron loading.
Molecular Weight:	79kDa
Gene ID:	7018
UniProt:	P02787
Pathways:	Transition Metal Ion Homeostasis

Application Details

Application Notes:	Positive Control: Jurkat, HeLa, MCF-7 or K562 cells. Human liver. Known Application: ELISA (Use Ab at 2-4 µg/mL for coating) (Order Ab without BSA), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

Handling

Buffer:	10 mM PBS without BSA and without Azide.
Preservative:	Azide free
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months.
Expiry Date:	24 months

Copyright antibodies-online. All rights reserved.