

Product Information

Anti-Human Transthyretin Protein A scaffold

Cat. No.: **AFB-40LY**

This product is for research use only and is not intended for diagnostic use.

Product Overview

The Anti-Transthyretin Protein A Scaffold molecule was selected against human transthyretin. Cross reactivity with other species has not been tested. The Anti-Transthyretin Protein A Scaffold molecule is an ideal affinity ligand as capture reagent in ELISA and as capture molecule in affinity chromatography. The Anti-Transthyretin Protein A Scaffold molecule is modified with a unique C-terminal cysteine for directed single-point chemical modification, facilitating coupling to matrices.

Antigen Description

Transthyretin (TTR, Prealbumin) is synthesized by the liver as a 127 amino acid non-glycosylated polypeptide chain. The entity, circulating in plasma, is a structurally stable tetramer composed of four identical monomers. It was originally called pre-albumin, however it has no structural relationship with albumin. The main function of transthyretin is transport of thyroxine and retinol binding protein i.e. vitamin A. The transthyretin concentration in plasma ranges from 20-40 mg/ml and the level is decreased in subjects suffering from malnutrition or chronic inflammation. In hereditary transthyretin amyloidosis, mutated transthyretin causes aggregation and formation of amyloid deposits in tissues with peripheral neuropathy as the major clinical manifestation.

Specific Activity

Anti-Transthyretin Protein A scaffold molecule binds to human transthyretin. Cross reactivity with other species has not been tested.

Source

Display library

Species Reactivity

human

Expression Host

E. coli

Applications

ELISA

Molecular Weight

13.6 kDa

Storage

At +4°C is recommended for lyophilized protein. For reconstituted protein in physiological buffer, short-term storage at +4°C is recommended. For long-term storage, the protein solution should first be aliquoted and stored frozen at -20°C. There is no dec

ANTIGEN GENE INFORMATION

Gene Name

[TTR transthyretin \[Homo sapiens \]](#)

Official Symbol

TTR

Synonyms

TTR; transthyretin; CTS; CTS1; PALB; TBPA; HsT2651; prealbumin, amyloidosis type I; Transthyretin; ATTR; Prealbumin; OTTHUMP00000162827; carpal tunnel syndrome 1; thyroxine-binding prealbumin

Gene ID

[7276](#)

mRNA Refseq

[NM_000371](#)

Protein Refseq

[NP_000362](#)

MIM

[176300](#)

UniProt ID

P02766

Chromosome Location

18q12.1

Pathway

FOXA2 and FOXA3 transcription factor networks.

Function

hormone activity; hormone binding; protein binding