

## Transthyretin Antibody

*Transthyretin: TTR, PALB, TBPA, HsT2651*

**CATALOG No.: 5157**

### BACKGROUND:

Transthyretin is a tetrameric carrier protein that transports thyroid hormones in the plasma and cerebrospinal fluid, and retinol (vitamin A) in the plasma (reviewed in 1). More than 80 different mutations in this gene have been reported; most mutations are related to amyloid deposition, affecting predominantly peripheral nerve and/or the heart. The diseases caused by mutations include familial amyloidotic polyneuropathy, euthyroid hyperthyroxinemia, amyloidotic vitreous opacities, cardiomyopathy, oculoleptomeningeal amyloidosis, meningocerebrovascular amyloidosis, and carpal tunnel syndrome. It has also been suggested that Transthyretin plays an important role in the maintenance of normal cognitive processes during aging, neuropeptide processing and nerve regeneration (2). It has also been linked to several pathological conditions including Parkinson's disease, schizophrenia, and depression (1,3).

### SOURCE:

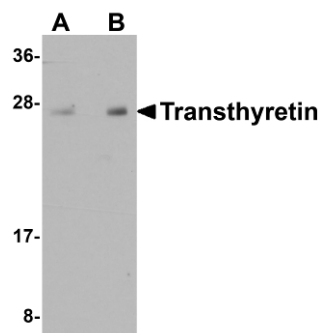
Chicken polyclonal Transthyretin antibody was raised against a 17 amino acid peptide near the center of human Transthyretin (GenBank accession no. P02766).

### TRANSTHYRETINLICATION:

Transthyretin antibody can be used for detection of Transthyretin by Western blot at 1 – 2 µg/ml. (Optimal dilution should be determined by user.) Human lung tissue lysate can be used as positive control. Transthyretin antibody is human, mouse and rat reactive. **For research use only.**

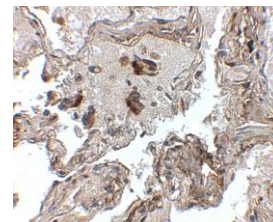
### STORAGE:

Transthyretin antibody is supplied as immunoaffinity purified IgY in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of Transthyretin in human lung tissue lysate with Transthyretin antibody at (A) 1 and (B) 2 µg/ml.

Immunohistochemistry of Transthyretin in human lung tissue with Transthyretin antibody at 2.5 µg/ml.



### RELATED PRODUCTS:

Blocking Peptide, Catalog No. **5157P**.

Human Lung Tissue Lysate, Catalog No. **1302**.

### REFERENCES:

1. Fleming CE, Nunes AF, and Sousa MM. Transthyretin: more than meets the eye. *Prog. Neurobiol.* 2009; epub.
2. Fleming CE, Saraiva MJ, and Sousa MM. Transthyretin enhances nerve regeneration. *J. Neurochem.* 2007; 103:831-9.
3. Rite I, Arguelles S, Venero JL, et al. Proteomic identification of biomarkers in the cerebrospinal fluid in a rat model of nigrostriatal dopaminergic degeneration. *J. Neurosci. Res.* 2007; 85:3607-18. (09-01D)