



## UK Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB07050 - Goat Anti-Tryptophan hydroxylase 2 / TPH2 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** TPH2, tryptophan hydroxylase 2, HGNC:20692, FLJ37295, NTPH, neuronal tryptophan hydroxylase, ADHD7, MGC138871, MGC138872, tryptophan 5-monoxygenase 2

**Official Symbol:** TPH2

**Accession Number(s):** NP\_775489.2

**Human GeneID(s):** [121278](#)

### Immunogen

Peptide with sequence C-NKPNSGKNDDKGNK, from the internal region of the protein sequence according to NP\_775489.2.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:32000.

**IHC:** In paraffin embedded Human Brain Stem shows staining of the cytoplasm of Purkinje cells and of neuron projections. Recommended concentration, 2-4µg/ml.

**Immunofluorescence:** Strong expression of the protein seen in the cytoplasm of U251 and A549 cells. Recommended concentration: 10µg/ml.

**Flow Cytometry:** Flow cytometric analysis of U251 cells. Recommended concentration: 10ug/ml.

### Species Reactivity

**Tested:** Human

**Expected from sequence similarity:** Human, Dog, Pig, Cow

### Specific References

**This antibody (previous batch) has been successfully used in IF on Mouse:**

Rahim RS, St John JA, Crane DI, Meedeniya ACB

Impaired neurogenesis and associated gliosis in mouse brain with PEX13 deficiency.

Mol Cell Neurosci. 2018 Apr;88:16-32

PMID: 29187321

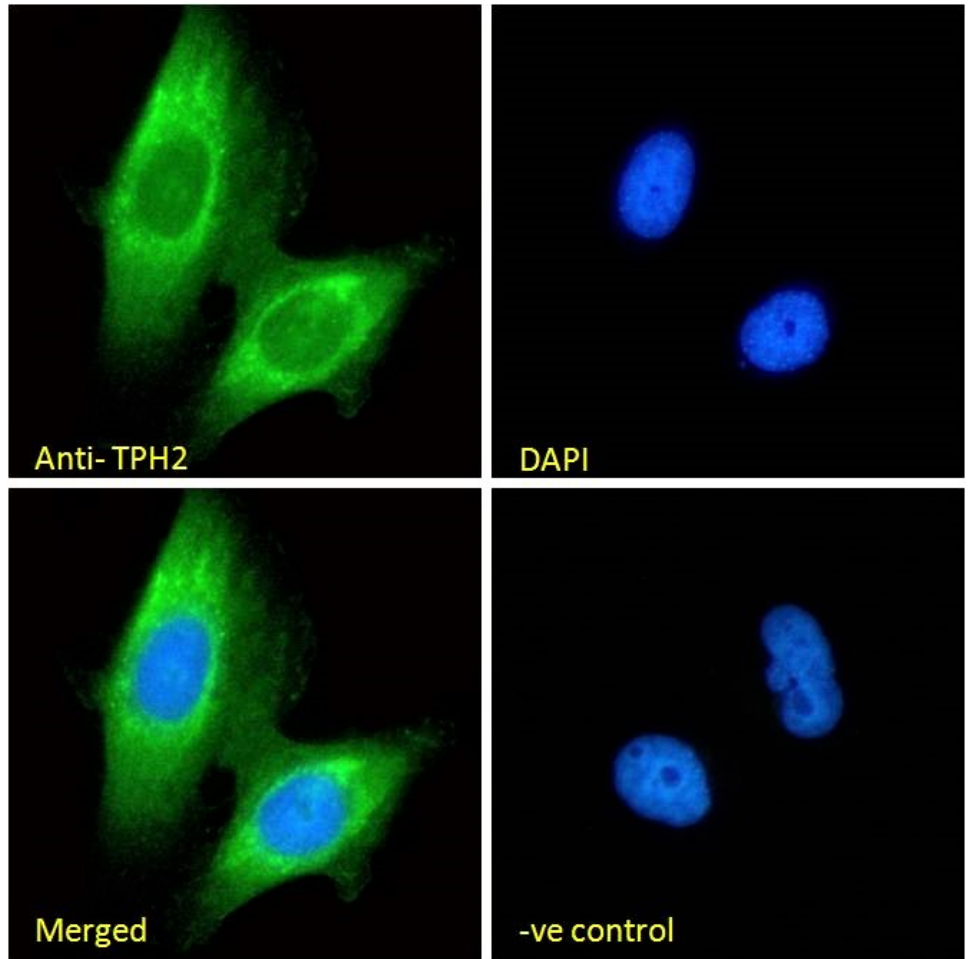
**This antibody (previous batch) has been successfully used in IF in Mouse:**

Rani Sadia Rahim, Mo Chen, C. Cathrin Nourse, Adrian C. B. Meedeniya and Denis I. Crane.

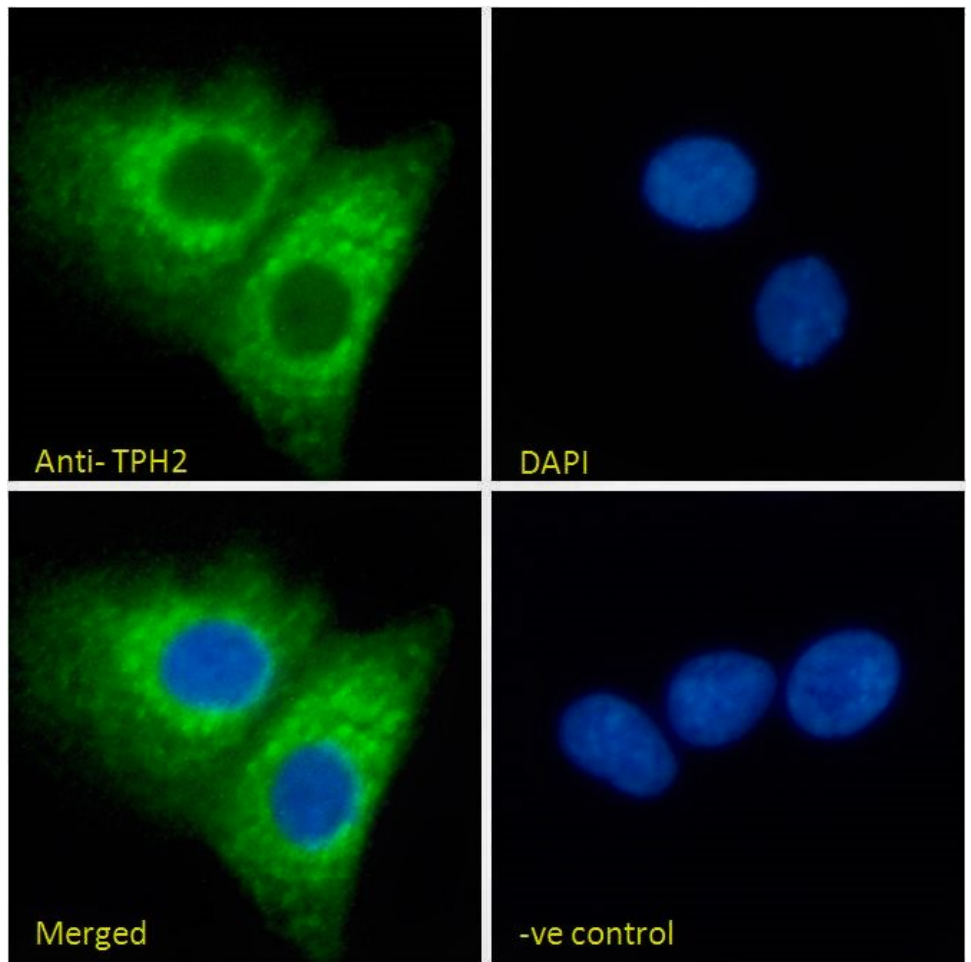
Mitochondrial Changes and Oxidative Stress in a Mouse Model of Zellweger Syndrome Neuropathogenesis.

Neuroscience 334 (2016) 201–213.

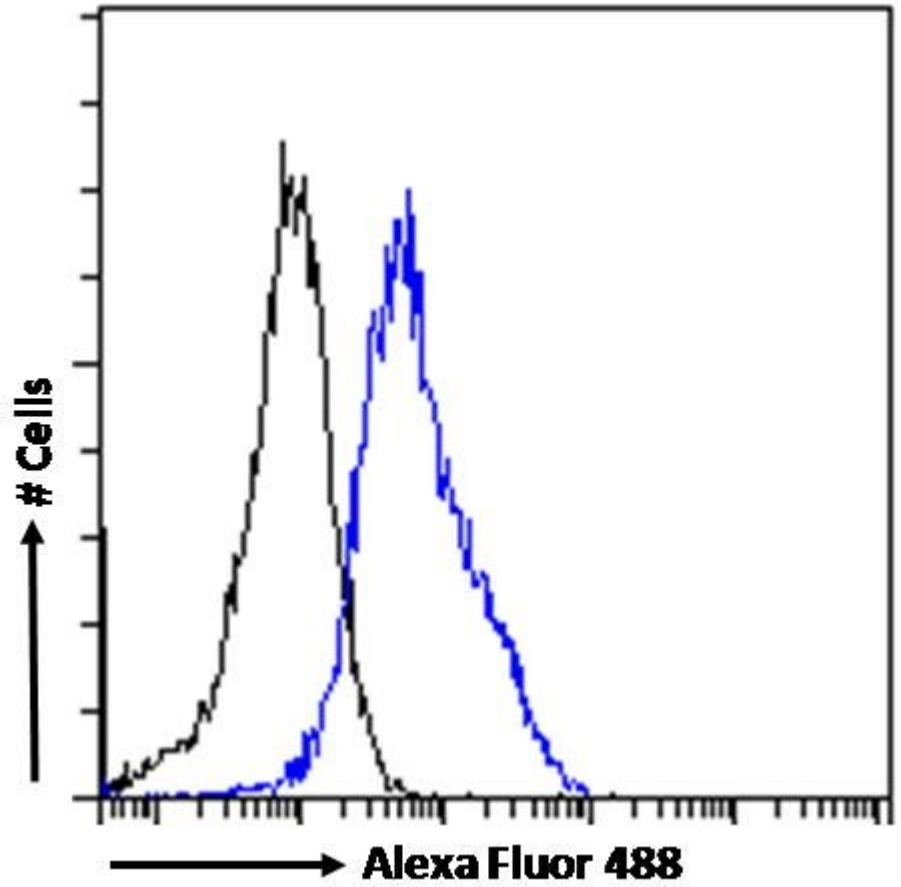
PMID: 27514574



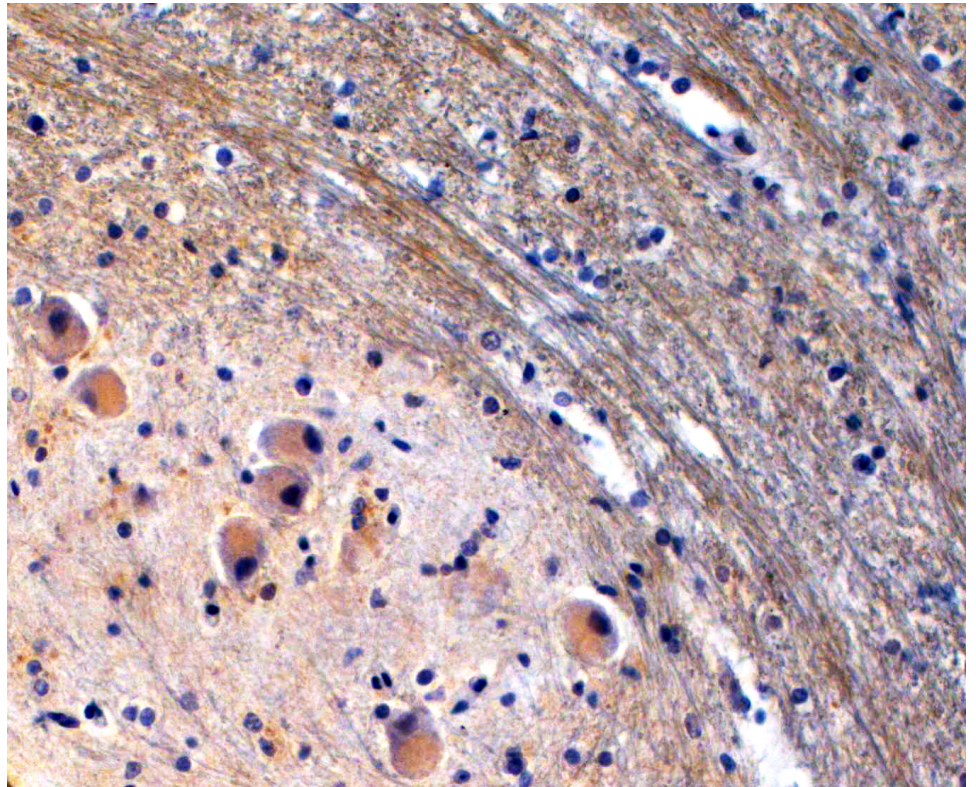
EB07050 Immunofluorescence analysis of paraformaldehyde fixed U251 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB07050 Immunofluorescence analysis of paraformaldehyde fixed A549 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB07050 Flow cytometric analysis of paraformaldehyde fixed U251 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



EB07050 (2µg/ml) staining of paraffin embedded Human Brain Stem. Steamed antigen retrieval with citrate buffer pH 6, HRP-staining.