**Anti-Tyrosine Hydroxylase antibody ab137721**

**Product name**: Anti-Tyrosine Hydroxylase antibody

**Description**: Rabbit polyclonal to Tyrosine Hydroxylase

**Host species**: Rabbit

**Tested applications**

**Suitable for**: IHC-FoFr, WB, ICC/IF, IHC-P

**Species reactivity**

**Reacts with**: Mouse, Rat, Human

**Immunogen**: Recombinant fragment, corresponding to a region within amino acids 150-490 of Human Tyrosine Hydroxylase.

**Positive control**: NT2D1, PC-3, U87-MG, SK-N-SH, Mouse brain and PC-12 whole cell lysates; SK-N-SH cells; Human H661 xenograft and Rat hindlimb pad skin tissues.

**Form**: Liquid

**Storage instructions**: Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

**Storage buffer**

- pH: 7.00
- Preservative: 0.01% Thimerosal (merthiolate)
- Constituents: 0.75% Glycine, 1.21% Tris, 10% Glycerol

**Purity**: Immunogen affinity purified

**Clonality**: Polyclonal

**Isotype**: IgG

**Applications**

Our Abpromise guarantee covers the use of ab137721 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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## Function
Plays an important role in the physiology of adrenergic neurons.

## Tissue specificity
Mainly expressed in the brain and adrenal glands.

## Pathway
Catecholamine biosynthesis; dopamine biosynthesis; dopamine from L-tyrosine: step 1/2.

## Involvement in disease
Defects in TH are the cause of dystonia DOPA-responsive autosomal recessive (ARDRD) [MIM:605407]; also known as autosomal recessive Segawa syndrome. ARDRD is a form of DOPA-responsive dystonia presenting in infancy or early childhood. Dystonia is defined by the presence of sustained involuntary muscle contractions, often leading to abnormal postures. Some cases of ARDRD present with parkinsonian symptoms in infancy. Unlike all other forms of dystonia, it is an eminently treatable condition, due to a favorable response to L-DOPA. Note=May play a role in the pathogenesis of Parkinson disease (PD). A genome-wide copy number variation analysis has identified a 34 kilobase deletion over the TH gene in a PD patient but not in any controls.

## Sequence similarities
Belongs to the biopterin-dependent aromatic amino acid hydroxylase family.

## Images

### Western blot
Anti-Tyrosine Hydroxylase antibody (ab137721) at 1/1000 dilution + PC-12 whole cell lysate at 30 µg

**Predicted band size:** 58 kDa

7.5% SDS-PAGE
**Western blot - Anti-Tyrosine Hydroxylase antibody** (ab137721)

**All lanes**: Anti-Tyrosine Hydroxylase antibody (ab137721) at 1/500 dilution

**Lane 1**: NT2D1 whole cell lysate  
**Lane 2**: PC-3 whole cell lysate  
**Lane 3**: U87-MG whole cell lysate  
**Lane 4**: SK-N-SH whole cell lysate

Lysates/proteins at 30 µg per lane.

**Predicted band size: 58 kDa**

7.5 % SDS-PAGE

**Immunofluorescent analysis** of methanol-fixed SK-N-SH cells labelling Tyrosine Hydroxylase with ab137721 at 1/500 dilution (left panel) and co-stained with Hoechst 33343 (right panel). SK-N-SH cells were fixed in -20°C 100% MeOH for 5 min.
Immunohistochemical analysis of paraformaldehyde-fixed frozen sections of Rat hindlimb pad skin tissue labelling Tyrosine Hydroxylase with ab137721 at 1/100 dilution.

Immunohistochemical analysis of paraformaldehyde-fixed frozen sections of Rat hindlimb pad skin tissue labelling Tyrosine Hydroxylase with ab137721 at 1/100 dilution.

Immunohistochemical analysis of paraffin-embedded H661 xenograft labelling Tyrosine Hydroxylase with ab137721 at 1/100 dilution.

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