

## UK Office

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

## EB08354 - Goat Anti-GCH1 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** GCH1, GTP cyclohydrolase 1 (dopa-responsive dystonia), DYT5, GCH, GTP-CH-1, GTPCH1, GTP cyclohydrolase 1, guanosine 5'-triphosphate cyclohydrolase I

**Official Symbol:** GCH1

**Accession Number(s):** NP\_000152.1 ; NP\_001019195.1 ; NP\_001019241.1 ; NP\_001019242.1

**Human GeneID(s):** [2643](#)

**Non-Human GeneID(s):** 14528 (mouse), 29244 (rat)

**Important Comments:** This antibody is expected to recognize all four isoforms (NP\_000152.1 ; NP\_001019195.1 ; NP\_001019241.1 ; NP\_001019242.1)

### Immunogen

Peptide with sequence C-GKVHIGYLPNKQ, from the internal region of the protein sequence according to NP\_000152.1 ; NP\_001019195.1 ; NP\_001019241.1 ; NP\_001019242.1 .

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 1:16000.

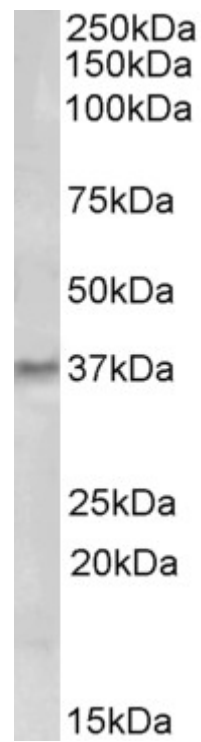
**Western blot:** Approx. 37kDa band observed in Human Tonsil lysates. Customer's experiments gave identical results in lysates of cell line HUVEC with antibodies raised against different parts of the same protein. (calculated MW of 27.9kDa according to NP\_000152.1). Recommended concentration: 0.5-1.5µg/ml. Primary incubation was 1 hour.

**IHC:** Paraffin embedded Human Brain (Cerebellum) and Small Intestine. Recommended concentration: 5µg/ml.

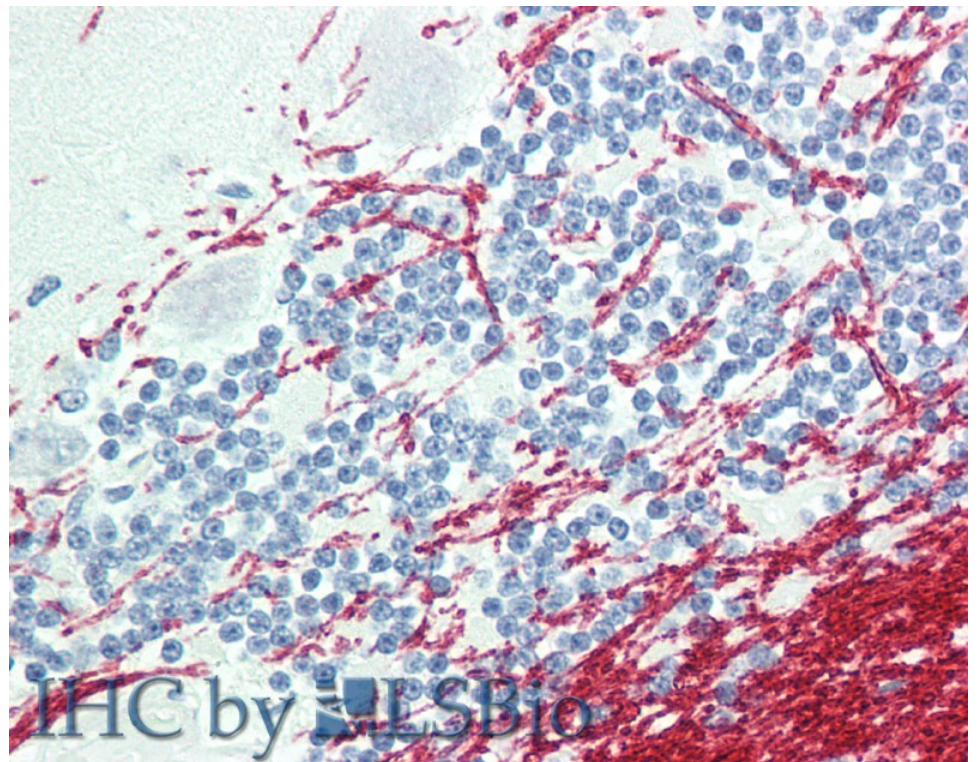
### Species Reactivity

**Tested:** Human

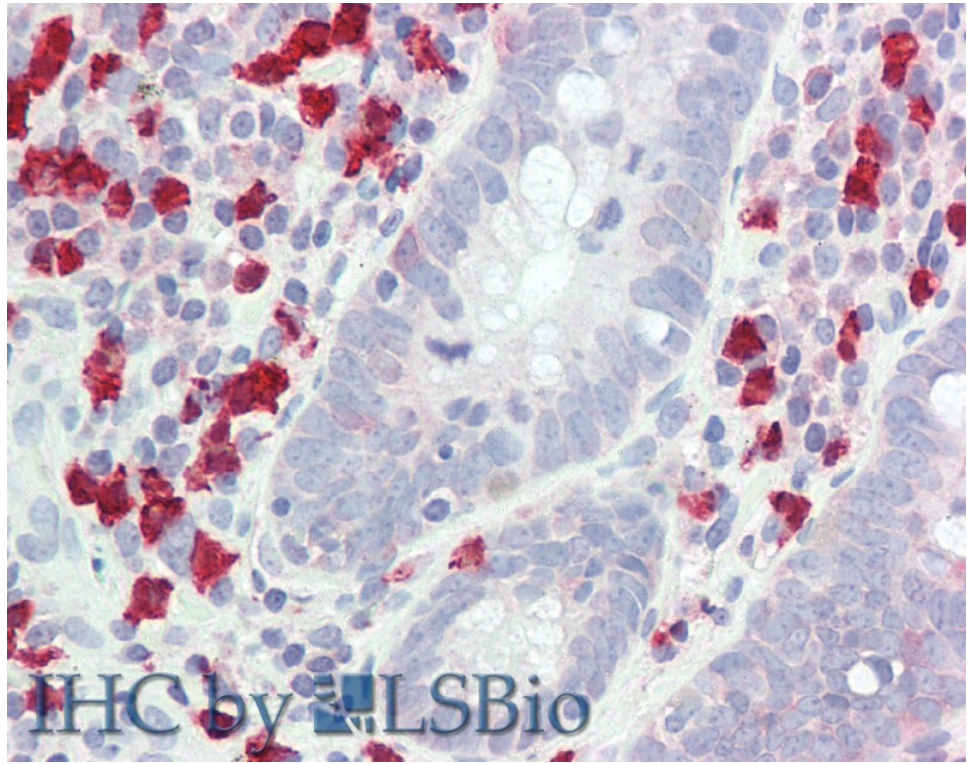
**Expected from sequence similarity:** Human, Mouse, Rat



EB08354 (0.5 $\mu$ g/ml) staining of Human Tonsil lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB08354 (5 $\mu$ g/ml) staining of paraffin embedded Human Cerebellum. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB08354 (5µg/ml) staining of paraffin embedded Human Small Intestine. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.