

## UK Office

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

## EB08124 - Goat Anti-Orexin Receptor 2 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** OTTHUMP00000039969, hypocretin (orexin) receptor 2, HCRTR2, OX2R, hypocretin receptor-2, orexin receptor 2

**Official Symbol:** HCRTR2

**Accession Number(s):** NP\_001517.1

**Human GeneID(s):** [3062](#)

**Non-Human GeneID(s):** 25605 (rat)

### Immunogen

Peptide with sequence SGTKLEDSPPCRN, from the N Terminus of the protein sequence according to NP\_001517.1.

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 1:128000.

**Western blot:** Approx 50kDa band observed in Human Brain (Hippocampus) lysates (calculated MW of 50.7kDa according to NP\_001517.1). Recommended concentration: 1-3µg/ml. Primary incubation was 1 hour.

### Species Reactivity

**Tested:** Human

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

### Specific Reference

**This antibody has been successfully used in ICC on Mouse:**

Danlei Liu et al.

Lateral hypothalamus orexinergic projection to the medial prefrontal cortex modulates chronic stress-induced anhedonia but not anxiety and despair.

Transl Psychiatry. 2024 Mar 16;14(1):149.

PMID: 38493173



EB08124 (1.5 $\mu$ g/ml) staining of Human Brain (Hippocampus) lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.