

Anti-Nociceptin Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Rat (predicted: Human, Mouse, Dog, Pig, Cow, Horse, Rabbit)
Molecular Weight:	Theoretical: 20 kDa. Actual: 20 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	<p>1. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-Nociceptin Polyclonal Antibody, Unconjugated (TMAB-09550) 1:300, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining</p> <p>2. Sample: Brain (Rat) lysate at 30 µg; liver (Rat) lysate at 30 µg; Primary: Anti-Nociceptin (TMAB-09550) at 1: 200 dilution; Secondary: HRP conjugated Goat-Anti-Rabbit IgG at 1: 3000 dilution; Predicted band size: 20 kD Observed band size: 20 kD</p>
Application:	WB, IHC-P, IHC-Fr, IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human Nociceptin
Antigen Species:	Human
Gene ID:	5368
Uniprot ID:	Q13519

Research Background

Nociceptin/orphanin FQ (N/OFQ), a 17-amino acid neuropeptide, is the endogenous ligand for the nociceptin receptor (NOP, ORL-1), and initiates its function to act on numerous brain activities such as pain sensation and fear learning. It is derived from the prepronociceptin protein, as are a further 2 peptides, nocistatin & NocII, which inhibit the N/OFQ receptor function. Nociceptin itself acts as a potent anti-analgesic, effectively counteracting the effect of pain-relievers. The gene coding for prepronociceptin is located on Ch8p21 in humans. Nociceptin acts at the Nociceptin receptor (NOP receptor) formerly known as ORL1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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