

Rabbit Polyclonal Anti-Humanin antibody

Catalog Number: HUMN-101AP

Lot Number:

General Information

Product	Humanin Antibody
Accession #	Uniprot: Q8IVG9 NCBI: NP_001177399.1
Verified Applications	ELISA, IP, WB
Species Cross Reactivity	Human, Monkey
Host	Rabbit
Immunogen	Synthetic peptide corresponding to amino acid region 5-24 on Humanin protein.
Alternative Nomenclature	Sequence: GFSCLLLSTTATDLPVKRRT HN antibody HUNIN Antibody MT-RNR2 antibody
Specificity	Will detect all isoforms except Humanin 9.

Physical Properties

Quantity	100 µg
Volume	200 µl
Form	Affinity Purified Immunoglobulins
Immunoglobulin & Concentration	0.62 mg/ml IgG in antibody stabilization buffer
Storage	Store at -20°C for long term storage.

Recommended Dilutions

DOT Blot	1:10,000
ELISA	1:10,000
Immunoprecipitation	1:200
Western Blot	1:500

Related Products

Catalog

Humanin 9 Antibody	HUMN9-901AP
BIOTIN-Conjugated	HUMN-BIOTIN
FITC-Conjugated	HUMN-FITC
Antigenic Blocking Peptide	P-HUMN
Western Blot Positive Control	PC-HUMN

Overview:

Humanin is a peptide that is 21 or 24 amino acids long whether it is produced in the mitochondria or cytosol respectively (1). Humanin is encoded by the mi16S ribosomal RNA gene MT-RNR2 (2). Humanin is believed to have neuroprotective and cytoprotective effects. Studies have found humanin and humanin derivatives increase survival and physiological parameters in Alzheimer's disease models (3). Humanin is also believed to play neuroprotective roles in Huntington's disease, prion disease and strokes (4). Humanin may play a role in various other ailments including protection against oxidative stress, atherosclerotic plaque formation, heart attack and diabetes. (5, 6, 7, 8, 9).

The pan-Humanin selective antibodies were generated using a synthetic peptide corresponding to amino acid region 5-24 on human Humanin peptide. The Humanin antibodies are affinity purified over immobilized antigen based affinity chromatography. The purified immunoglobulins are prepared in stabilization buffer for long term storage. Antigenic blocking peptides (P-HUMN), and western blot positive control (PC-HUMN) in ready to use SDS-sample buffer are available. Antibodies can be conjugated to fluorophores and other secondary enzymes upon request at nominal cost. The pan-Humanin selective antibodies will label all Humanin isoforms except Humanin 9. Humanin 9-selective antibody (HUMN9-901AP) is available for detection of only the Humanin 9 isoform. For a complete listing of all FabGennix antibodies and lab services, please visit <http://fabgennix.com>.

References

1. Yen, Kelvin, et al. "The emerging role of the mitochondrial-derived peptide humanin in stress resistance." *Journal of molecular endocrinology* 50.1 (2013): R11-R19.
2. Hashimoto, Yuichi, et al. "A rescue factor abolishing neuronal cell death by a wide spectrum of familial Alzheimer's disease genes and A β ." *Proceedings of the National Academy of Sciences* 98.11 (2001): 6336-6341.
3. Tajima, Hirohisa, et al. "A humanin derivative, S14G-HN, prevents amyloid- β -induced memory impairment in mice." *Journal of neuroscience research* 79.5 (2005): 714-723.
4. Kariya, Shingo, et al. "Humanin attenuates apoptosis induced by DRPLA proteins with expanded polyglutamine stretches." *Journal of molecular neuroscience* 25.2 (2005): 165-169.
5. Bachar, Adi R., et al. "Humanin is expressed in human vascular walls and has a cytoprotective effect against oxidized LDL-induced oxidative stress." *Cardiovascular research* (2010): cvq191.
6. Oh, Yun K., et al. "Humanin preserves endothelial function and prevents atherosclerotic plaque progression in hypercholesterolemic ApoE deficient mice." *Atherosclerosis* 219.1 (2011): 65-73.
7. Zacharias, David G., et al. "Humanin, a cytoprotective peptide, is expressed in carotid atherosclerotic plaques in humans." *PloS one* 7.2 (2012): e31065.
8. Muzumdar, Radhika H., et al. "Acute humanin therapy attenuates myocardial ischemia and reperfusion injury in mice." *Arteriosclerosis, thrombosis, and vascular biology* 30.10 (2010): 1940-1948.
9. Hoang, Phuong T., et al. "The neurosurvival factor Humanin inhibits β -cell apoptosis via signal transducer and activator of transcription 3 activation and delays and ameliorates diabetes in nonobese diabetic mice." *Metabolism* 59.3 (2010): 343-349.

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