

Product datasheet for **AP09556SU-N**

Serotonin Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC
Recommended Dilution:	Immunofluorescence. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Sections (No proteolytic treatment required). Recommended Positive Control: Duodenum. Working Dilutions: 1/50 for Immunohistochemistry (optimal dilution should be tested by serial dilution). Incubation Time: 1h at RT. Dilution Buffer: Dilute immediately before use with PBS.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Serotonin/Ovalbumin
Specificity:	Serotonin is produced by endocrine cells of the stomach, duodenum and ileum. The polyclonal antibody to serotonin can be used to differentiate tumors of serotonergic origin. The antigen localization is cytoplasmic.
Formulation:	PBS State: Serum State: Liquid Serum
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Background:

Serotonin (5-hydroxytryptamine, or 5-HT) is a monoamine neurotransmitter synthesised in serotonergic neurons in the central nervous system and enterochromaffin cells in the gastrointestinal tract. Serotonin plays an important part in the biochemistry of depression, migraine, bipolar disorder and anxiety. It is also believed to be influential on sexuality and appetite. 5-HT is generally thought not to be released from synaptic terminal buttons in the manner of classical neurotransmission but from serotonergic varicosities into the extra neuronal space. From here it is free to diffuse over a relatively large region of space ($>20\mu\text{m}$) and activate 5-HT receptors located on the dendrites, cell bodies and presynaptic terminals of adjacent neurons. Serotonergic action is terminated primarily via uptake of 5-HT from the synapse. This is through the specific monoamine transporter for 5-HT, 5-HT reuptake transporter, on the presynaptic neuron. The pharmacology of 5-HT is extremely complex, with its actions being mediated by a large and diverse range of 5-HT receptors.

Synonyms:

5-HT, 5HT, 5 hydroxytryptamine