

## ATG7 RABBIT PAB

**Cat.#:** S221628

**Product Name:** Anti-ATG7 Rabbit Polyclonal Antibody

**Synonyms:** GSA7; APG7L; APG7-LIKE

**UNIPROT ID:** O95352 (Gene Accession - NP\_006386 )

**Background:** This gene encodes an E1-like activating enzyme that is essential for autophagy and cytoplasmic to vacuole transport. The encoded protein is also thought to modulate p53-dependent cell cycle pathways during prolonged metabolic stress. It has been associated with multiple functions, including axon membrane trafficking, axonal homeostasis, mitophagy, adipose differentiation, and hematopoietic stem cell maintenance. Alternative splicing results in multiple transcript variants.

**Immunogen:** Synthetic peptide of human ATG7

**Applications:** ELISA, IHC

**Recommended Dilutions:** IHC: 25-50; ELISA: 5000-10000

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Isotype:** Immunogen-specific rabbit IgG

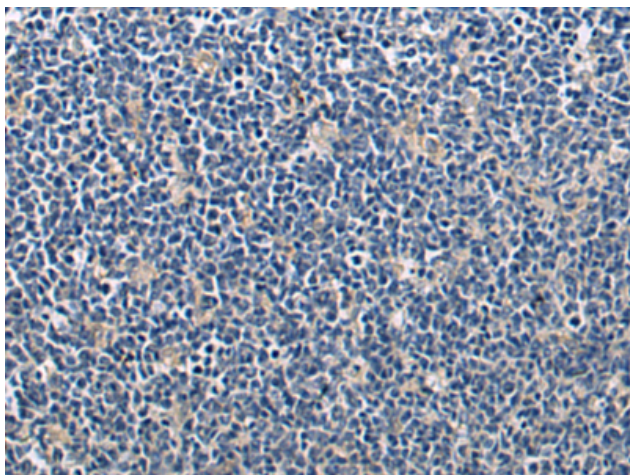
**Purification:** Antigen affinity purification

**Species Reactivity:** Human, Mouse, Rat

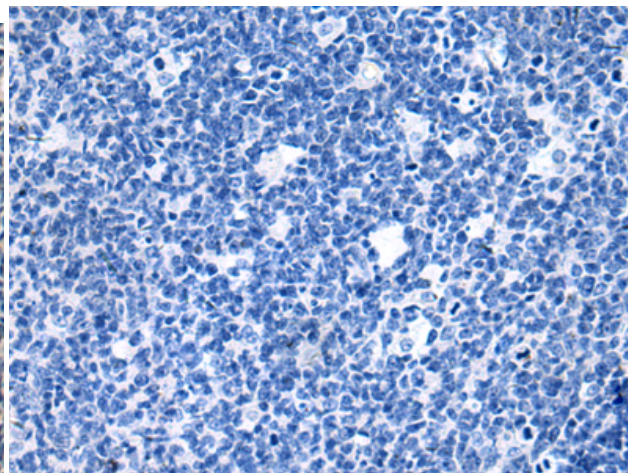
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

**Research Areas:** Metabolism, Cancer, Cell Biology, Cardiovascular

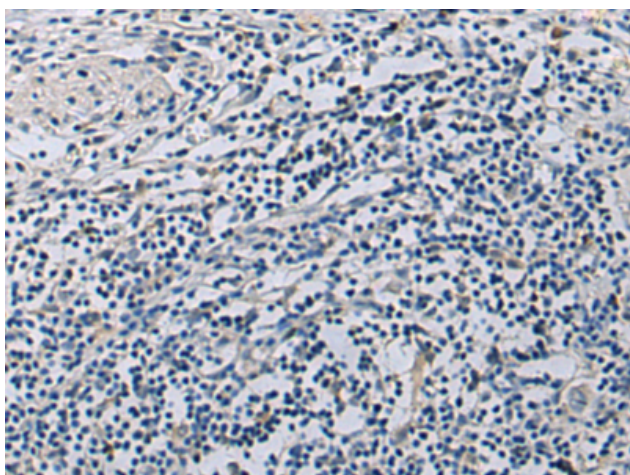
**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing



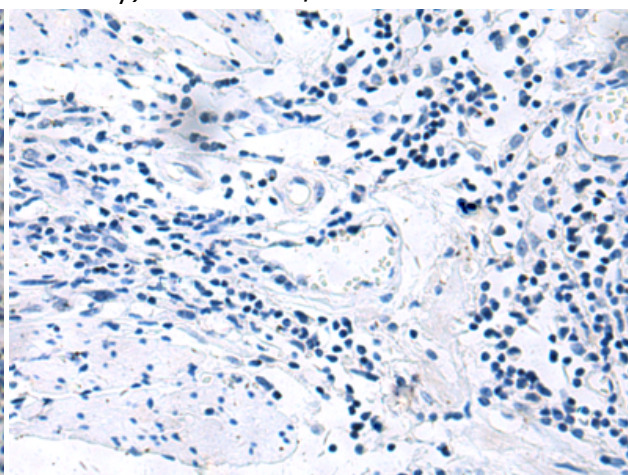
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using 221628 (ATG7 Antibody) at a dilution of 1/40 (Cytoplasm).



In comparison with the IHC on the left, the same paraffin-embedded Human tonsil tissue is first treated with the synthetic peptide and then with 221628 (Anti-ATG7 Antibody) at dilution 1/40.



The image on the left is immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using 221628 (Anti-ATG7 Antibody) at a dilution of 1/40.



In comparison with the IHC on the left, the same paraffin-embedded Human esophagus cancer tissue is first treated with synthetic peptide and then with D263303 (Anti-ATG7 Antibody) at dilution 1/40.