ATG5 Antibody

Subcategory: Chicken Polyclonal Antibody
Cat. No.: 254024
Unit: 0.1 mg

Description:
Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic-lysosomal pathway is important for normal growth control and may be defective in tumor cells. It is involved in the preservation of cellular nutrients under starvation conditions as well as the normal turnover of cytosolic components. This process is negatively regulated by TOR (Target of rapamycin) through phosphorylation of autophagy protein APG1. ATG5, another member of the autophagy protein family, forms a conjugate with ATG12; this conjugate has a ubiquitin-protein ligase (E3)-like activity for protein lipidation in autophagy. This conjugate also associates with innate immune response proteins such as RIG-I and VISA (also known as IPS-1), inhibiting type I interferon production and permitting viral replication in host cells. Three isoforms of ATG5 are known to exist; this ATG5 antibody will only detect the longest isoform.

Isotype: Chicken Ig
Applications: E, WB, IHC
Species Reactivity: H, M, R
Format: Each vial contains 0.1 ml IgY in PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by immunogen affinity chromatography.
Alternate Names: ATG5; Autophagy protein 5; Autophagy related protein 5; ATG5L; ASP
Accession No.: EAW48415

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within human ATG5.
Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:00-1:500

Storage: Store at -20°C. Minimize freeze-thaw cycles. Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.