



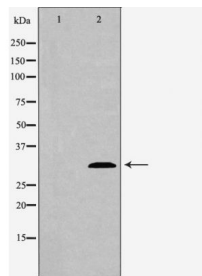
#24145

Catalog Number: 24145-1, 24145-2**Amount:** 50µg/50µl, 100µg/100µl**Swiss-Prot No. :** Q9H1Y0**Form of Antibody:** Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.**Storage/Stability:** Store at -20°C/1 year**Immunogen:** The antiserum was produced against synthesized peptide derived from Human ATG5**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.**Specificity/Sensitivity:** ATG5 antibody detects endogenous levels of total ATG5 protein**Reactivity:** Human, Mouse, Rat**Applications:**

Predicted MW: 32kd

WB: 1:500~1:2000

IHC: 1:50-200



Western blot analysis of extracts of various cell lines, using ATG5 antibody|Immunohistochemistry of paraffin-embedded Colon cancer using ATG5 Antibody .

Background :

Autophagy is a catabolic process for the autophagosomic-lysosomal degradation of bulk cytoplasmic contents . Autophagy is generally activated by conditions of nutrient deprivation but has also been associated with a number of physiological processes including development, differentiation, neurodegeneration, infection, and cancer . The molecular machinery of autophagy was largely discovered in yeast and referred to as autophagy-related (Atg) genes. Formation of the autophagosome involves a ubiquitin-like conjugation system in which Atg12 is covalently bound to Atg5 and targeted to autophagosome vesicles . This conjugation reaction is mediated by the ubiquitin E1-like enzyme Atg7 and the E2-like enzyme Atg10 .