For Research Use Only

ATG5 Monoclonal antibody

Catalog Number:66744-1-lg Featured Product 43 Publications



Basic Information	Catalog Number: 66744-1-lg	GenBank Accession Number: BC002699	Purification Method: Protein A purification	
	Size:	GeneID (NCBI):	CloneNo.:	
	150ul , Concentration: 1500 ug/ml by		2D3B8	
	Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	^d UNIPROT ID: Q9H1Y0	Recommended Dilutions: WB 1:1000-1:6000	
	Source:	Full Name:	IHC 1:150-1:600	
	Mouse	ATG5 autophagy related 5 homolo)g	
	Isotype:	(S. cerevisiae) Calculated MW:		
	lgG2a			
	Immunogen Catalog Number: AG16685	32 kDa		
		Observed MW: 50-55 and 40-45 kDa		
Applications	Tested Applications:	Positive Co	Positive Controls:	
	WB, IHC, ELISA	WB: HEK-2	93 cells, HepG2 cells, HeLa cells, Jurkat	
	Cited Applications:		s, Raji cells, HSC-T6 cells, NIH/3T3 cells	
	WB, IHC, IF, IP	IHC : huma	n colon cancer tissue,	
	Species Specificity: human, mouse, rat			
	Cited Species: human, mouse, rat, pig			
	Note-IHC: suggested antigen ro TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen		
	ATG5, also named as APG5L and ASP, belongs to the ATG5 family. It is required for autophagy. It plays an importan role in the apoptotic process, possibly within the modified cytoskeleton. Its expression is a relatively late event in the apoptotic process, occurring downstream of caspase activity. Autophagy is a catabolic process for the autophagosomic-lysosomal degradation of bulk cytoplasmic contents. Formation of the autophagosome involves a ubiquitin-like conjugation system in which ATG12 is covalently bound to ATG5 and targeted to autophagosome vesicles. It mediates autophagosome-independent host protection. 66744-1-Ig antibody can recognize the ATG5-ATG12 complex (50-55 kDa) which can be truncated and generate a 40-45 kDa band. (PMID: 19783656, 25032862)			
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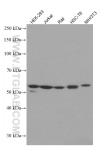
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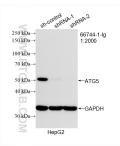
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Selected Validation Data







Various lysates were subjected to SDS PAGE followed by western blot with 66744-1-1g (ATG5 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 66744-1-Ig (ATG5 antibody) at dilution of 1:300 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). WB result of ATG5 antibody (66744-1-lg; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ATG5 transfected HepG2 cells.