

## Datasheet: AHP1651T BATCH NUMBER 163250

Description:	RABBIT ANTI HUMAN ATG7 (C-TERMINAL)
Specificity:	ATG7 (C-Terminal)
Other names:	UBIQUITIN-ACTIVATING ENZYME E1-LIKE PROTEIN
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

## **Product Details**

Applications	This product has been re	eported to	work in th	e following applicatior	ns. This information is	
	derived from testing within our laboratories, peer-reviewed publications or personal					
	communications from the	e originator	rs. Please	refer to references in	ndicated for further	
	information. For general protocol recommendations, please visit www.bio-					
	rad-antibodies.com/proto	cols.				
		Yes	No	Not Determined	Suggested Dilution	
	Immunohistology - Frozen	-			10ug/ml	
	Western Blotting	•			1 - 2ug/ml	
	Where this product has r	not been te	sted for u	se in a particular tech	nnique this does not	
	necessarily exclude its us	se in such	procedur	es. Suggested workin	g dilutions are given as	
	a guide only. It is recomm	nended that	at the use	r titrates the product f	for use in their own	
	system using appropriate	e negative/	positive c	ontrols.		
	, , , , , , , , , , , , , , , , , , , ,	•	•			
Target Species	Human					
Species Cross	Reacts with: Mouse					
Reactivity	N.B. Antibody reactivity a	and workin	a conditio	ns mav varv between	n species. Cross	
Reactivity	<b>N.B.</b> Antibody reactivity a reactivity is derived from	and workin testing wit	g conditio	ns may vary between	n species. Cross wed publications or	
Reactivity	<b>N.B.</b> Antibody reactivity a reactivity is derived from personal communication	and workin testing wit	g conditio hin our la	ns may vary between boratories, peer-revie s. Please refer to refe	n species. Cross wed publications or prences indicated for	
Reactivity	<b>N.B.</b> Antibody reactivity a reactivity is derived from personal communications further information	and workin testing wit s from the	g conditic hin our la originator	ns may vary between boratories, peer-revie s. Please refer to refe	n species. Cross wed publications or erences indicated for	
Reactivity	<b>N.B.</b> Antibody reactivity a reactivity is derived from personal communications further information.	and workin testing wit s from the	g conditic hin our la originator	ns may vary between boratories, peer-revie s. Please refer to refe	n species. Cross wed publications or erences indicated for	
Reactivity Product Form	<ul> <li>N.B. Antibody reactivity a reactivity is derived from personal communications further information.</li> <li>Purified IgG - liquid</li> </ul>	and workin testing wit s from the	g conditic hin our la originator	ns may vary between boratories, peer-revie s. Please refer to refe	n species. Cross ewed publications or erences indicated for	
Reactivity Product Form Antiserum Preparation	<ul> <li>N.B. Antibody reactivity a reactivity is derived from personal communications further information.</li> <li>Purified IgG - liquid</li> <li>Antiserum to human ATG</li> </ul>	and workin testing wit s from the 67 was rais	g conditic hin our la originator sed by rep	ns may vary between boratories, peer-revie s. Please refer to refe	n species. Cross wed publications or erences indicated for of rabbits with highly	
Reactivity Product Form Antiserum Preparation	<ul> <li>N.B. Antibody reactivity a reactivity is derived from personal communications further information.</li> <li>Purified IgG - liquid</li> <li>Antiserum to human ATG purified antigen. Purified</li> </ul>	and workin testing wit s from the G7 was rais IgG was p	g conditic hin our la originator sed by rep repared f	ns may vary between boratories, peer-revie s. Please refer to refe beated immunisation of rom whole serum by a	n species. Cross wed publications or erences indicated for of rabbits with highly affinity chromatography.	
Reactivity Product Form Antiserum Preparation	<ul> <li>N.B. Antibody reactivity a reactivity is derived from personal communications further information.</li> <li>Purified IgG - liquid</li> <li>Antiserum to human ATG purified antigen. Purified</li> </ul>	and workin testing wit s from the 67 was rais IgG was p	g conditic hin our la originator sed by rep repared f	ns may vary between boratories, peer-revie s. Please refer to refe beated immunisation of rom whole serum by a	a species. Cross wed publications or erences indicated for of rabbits with highly affinity chromatography.	
Reactivity Product Form Antiserum Preparation Buffer Solution	<ul> <li>N.B. Antibody reactivity a reactivity is derived from personal communications further information.</li> <li>Purified IgG - liquid</li> <li>Antiserum to human ATG purified antigen. Purified</li> <li>Phosphate buffered salim</li> </ul>	and workin testing wit s from the G7 was rais IgG was p	g conditic hin our la originator sed by rep repared f	ns may vary between boratories, peer-revie s. Please refer to refe beated immunisation of rom whole serum by a	n species. Cross wed publications or erences indicated for of rabbits with highly affinity chromatography.	
Reactivity Product Form Antiserum Preparation Buffer Solution	<ul> <li>N.B. Antibody reactivity a reactivity is derived from personal communications further information.</li> <li>Purified IgG - liquid</li> <li>Antiserum to human ATG purified antigen. Purified</li> <li>Phosphate buffered salin</li> </ul>	and workin testing wit s from the 67 was rais IgG was p	g conditio hin our la originator sed by rep repared fi	ns may vary between boratories, peer-revie s. Please refer to refe beated immunisation o rom whole serum by a	a species. Cross ewed publications or erences indicated for of rabbits with highly affinity chromatography.	

Stabilisers		
Approx. Protein Concentrations	IgG concentration 1.0mg/ml	
Immunogen	A peptide corresponding to an 17 amino acid sequence from n human ATG7.	ear the carboxy terminus of
External Database Links	UniProt:095352Related reagents09D906Related reagentsEntrez Gene:10533ATG7Related reagents74244Atg7Related reagents	
Synonyms	Apg7I, APG7L	
RRID	AB_2290188	
Specificity	<ul> <li>Rabbit anti Human ATG7 (C-Terminal) antibody recognizes protein 7, known also as Ubitiquin Activating Enzyme-E1 like F ATG7 is a ~78 kDa cytoplasmic protein.</li> <li>In mammalian cells, ATG7 is essential for autophagy conjugati autophagosome formation, and starvation-induced bulk degrad organelles. Caspase-8 may alter ATG7 levels and thus the ATG cell death (Yu <i>et al.</i> 2004).</li> <li>ATG7 is evolutionarily conserved exhibiting high homology with expressed in wide range of tissues including kidney, liver, bone</li> </ul>	human Autophagy-related Protein, ATG7, and APG7. fon systems, dation of proteins and G7 program of autophagic hin mammalian species. It e marrow and lymph nodes.
Western Blotting	AHP1651T detects a band of approximately 78kDa in Caco-2	cell lysate.
References	<ol> <li>Pampliega, O. <i>et al.</i> (2013) Functional interaction between a <u>Nature. 502 (7470): 194-200.</u></li> <li>Koerver, L. <i>et al.</i> (2019) The ubiquitin-conjugating enzyme L lysophagy in response to endolysosomal damage. <u>EMBO Rep</u> 3. Pampliega, O. <i>et al.</i> (2021) Amyloid beta oligomers modulat through the primary cilium. <u>BioRxiv 2Jun [Epub ahead of print]</u></li> </ol>	autophagy and ciliogenesis. JBE2QL1 coordinates <u>. 20 (10): e48014.</u> te neuronal autophagy
Storage	This product is shipped at ambient temperature. It is recomme -20°C on receipt. When thawed, aliquot the sample as needed short term use (up to 4 weeks) and store the remaining aliquot	nded to aliquot and store at I. Keep aliquots at 2-8°C for ts at -20°C.
	Avoid repeated freezing and thawing as this may denature the frost-free freezers is not recommended.	antibody. Storage in

Health And SafetyMaterial SafeInformation <a href="https://www.b">https://www.b</a> 10040			Safety Datas vw.bio-rad-ar	heet documentation #10 htibodies.com/SDS/AHP	040 available at <u>1651T</u>	:
Regulatory For research		arch purpose	s only			
North & South	Tel: +1 800 265 Fax: +1 919 878	7376	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739	Europe	Fel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50
	Email: antibody_	_sales_us@bio-	rad.com	Email: antibody_sales_uk@bic	-rad.com I	Email: antibody_sales_de@bio-rad.con
To find a b	atch/lot speci	fic datashee	t for this produ	uct, please use our online	search tool at: bio	-rad-antibodies.com/datashee

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