

**C20orf31 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP55805**

**Specification**

**C20orf31 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">Q9BV94</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	62 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C20orf31
Epitope Specificity	101-200/578
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted. Endoplasmic reticulum lumen.
SIMILARITY	Belongs to the glycosyl hydrolase 47 family.
Post-translational modifications	Glycosylated.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

In the endoplasmic reticulum (ER), misfolded proteins are retrotranslocated to the cytosol and degraded by the proteasome in a process known as ER-associated degradation (ERAD). EDEM2 belongs to a family of proteins involved in ERAD of glycoproteins (Mast et al., 2005 [PubMed 15537790]).[supplied by OMIM, Mar 2008]

**C20orf31 Polyclonal Antibody - Additional Information**

**Gene ID** 55741

**Other Names**

ER degradation-enhancing alpha-mannosidase-like protein 2, EDEM2, C20orf31, C20orf49

**Target/Specificity**

Expressed ubiquitously in all tissues tested with slightly higher levels detected in small intestine and peripheral blood leukocytes and weakest levels in brain and skeletal muscle.

**Dilution**

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class =

=<span class="dilution\_IHC-F">IHC-F~N/A</span><br \><span class="dilution\_IF">IF~1:50~200</span><br \><span class="dilution\_ICC">ICC~N/A</span><br \><span class="dilution\_E">E~N/A</span>

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**C20orf31 Polyclonal Antibody - Protein Information**

**Name** EDEM2

**Synonyms** C20orf31, C20orf49

**Function**

Involved in the endoplasmic reticulum-associated degradation (ERAD) pathway that targets misfolded glycoproteins for degradation in an N-glycan-dependent manner (PubMed:<a href="http://www.uniprot.org/citations/15537790" target="\_blank">15537790</a>, PubMed:<a href="http://www.uniprot.org/citations/25092655" target="\_blank">25092655</a>). May initiate ERAD by promoting the first mannose trimming step of ERAD substrates, from Man9GlcNAc2 to Man8GlcNAc2 (PubMed:<a href="http://www.uniprot.org/citations/25092655" target="\_blank">25092655</a>). Seems to recognize and bind to exposed hydrophobic regions in target proteins (By similarity).

**Cellular Location**

Endoplasmic reticulum lumen

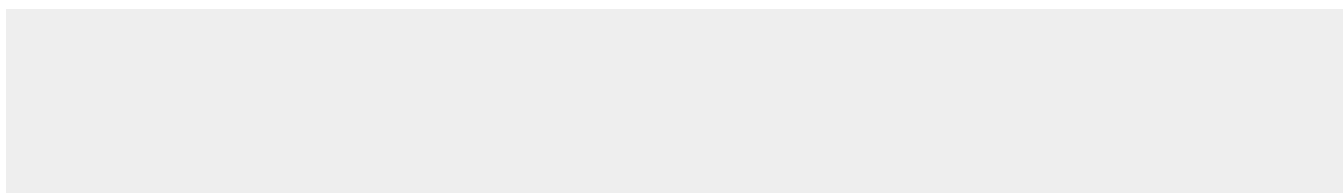
**Tissue Location**

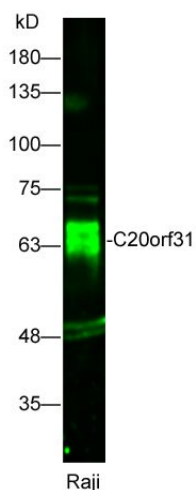
Expressed ubiquitously in all tissues tested with slightly higher levels detected in small intestine and peripheral blood leukocytes and weakest levels in brain and skeletal muscle

**C20orf31 Polyclonal Antibody - Protocols**

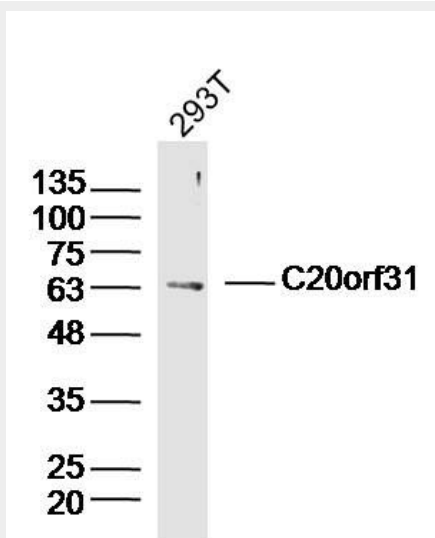
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

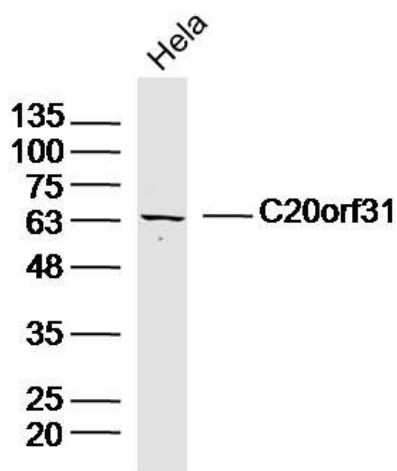
**C20orf31 Polyclonal Antibody - Images**



Sample: Raji Cells Lysate at 25 ug  
Primary: Anti-C20orf31(bs-15110R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 62kD  
Observed band size: 62kD



Sample: 293T Cell (Human) Lysate at 30 ug  
Primary: Anti- C20orf31 (bs-15110R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 62kD  
Observed band size: 62kD



Sample: HeLa Cell (Human) Lysate at 30 ug  
Primary: Anti- C20orf31 (bs-15110R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 62kD  
Observed band size: 62kD