

**RNF121 Antibody**  
**Catalog # ASC11948****Specification**

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**RNF121 Antibody - Product Information**

Application	WB, ICC
Primary Accession	<a href="#">Q9H920</a>
Other Accession	<a href="#">NP_060790</a> , <a href="#">21361732</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 24, 27, 36 kDa

Application Notes	<b>Observed: 28 kDa KDa</b> <b>RNF121 antibody can be used for detection of RNF121 by Western blot at 1 - 2 µg/ml. Antibody can also be used for immunocytochemistry at 10 µg/ml.</b>
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**RNF121 Antibody - Additional Information**

Gene ID	552978
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**Target/Specificity**

RNF121; RNF121 antibody is human, mouse and rat reactive. Multiple isoforms of RNF121 are known to exist.

**Reconstitution & Storage**

RNF121 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

**Precautions**

RNF121 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**RNF121 Antibody - Protein Information**

**Name** RNF121

**Function**

E3 ubiquitin ligase which accepts ubiquitin and transfers it to substrates thereby promoting their degradation by the endoplasmic reticulum-associated degradation (ERAD) pathway which is a pathway involved in ubiquitin-dependent degradation of misfolded endoplasmic reticulum proteins (By similarity). May regulate the unfolded protein response to reduce endoplasmic reticulum stress (By similarity).

**Cellular Location**

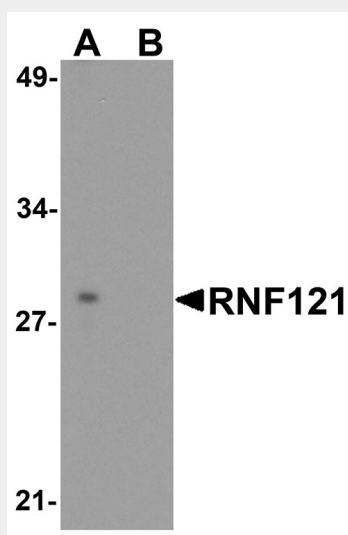
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q09251}; Multi-pass membrane protein

## RNF121 Antibody - Protocols

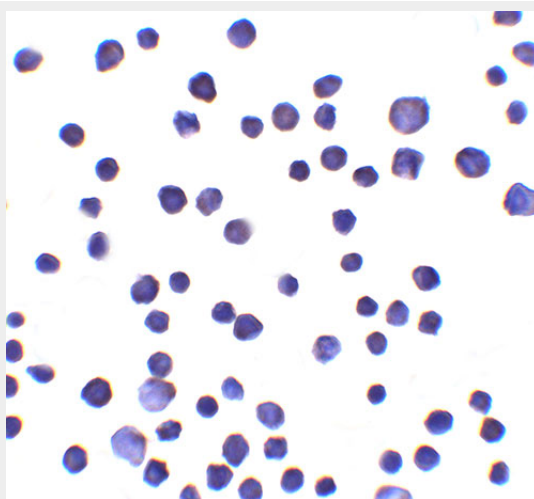
Provided below are standard protocols that you may find useful for product applications.

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

## RNF121 Antibody - Images



Western blot analysis of RNF121 in MCF7 cell lysate with RNF121 antibody at 1 µg/ml in (A) the absence and (B) the presence of blocking peptide.



Immunocytochemistry of RNF121 in MCF7 cells with RNF121 antibody at 10 µg/ml.

## RNF121 Antibody - Background

RNF121 is an evolutionarily conserved E3 ligase ring finger protein that is expressed in the endoplasmic reticulum (1). It acts downstream of the unfolded protein response regulator protein kinase-like endoplasmic reticulum kinase (PERK). Overexpression of RNF121 during the early stages of gonad development led to aberrations in germline development and gonad migration, suggesting that it plays a role in endoplasmic reticulum-associated degradation machinery (1).

#### **RNF121 Antibody - References**

Darom A, Bening-Abu-Shach U, and Broday L. RNF-121 is an endoplasmic reticulum-membrane E3 ubiquitin ligase involved in the regulation of B-integrin. Mol. Biol. Cell 2010; 21:1788-98.