


## Product datasheet

### Anti-UBA52 antibody [EPR4546] $\alpha$ b109227

Recombinant RabMAb

[8 References](#) [5 Images](#)

#### Overview

Product name	Anti-UBA52 antibody [EPR4546]
Description	Rabbit monoclonal [EPR4546] to UBA52
Host species	Rabbit
Tested applications	<b>Suitable for:</b> Flow Cyt (Intra), WB, IHC-P, ICC/IF
Species reactivity	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Fetal kidney, Human placenta, 293T and JAR cell lysates. Human brain tissue. SH-SY-5Y cells. Flow Cyt (intra): HepG2 cells
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR4546

Isotype

IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab109227 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

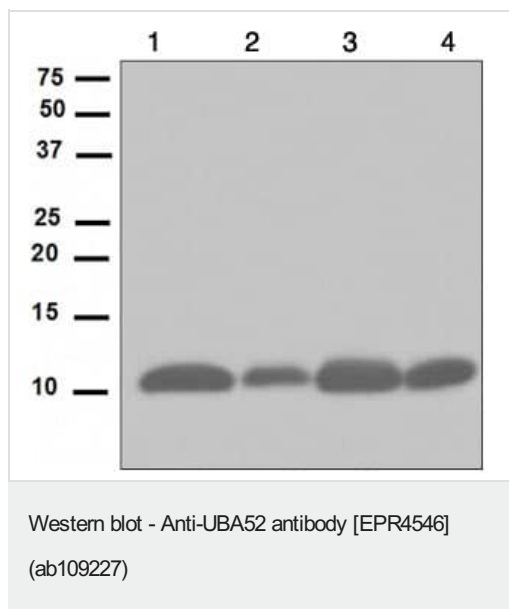
Application	Abreviews	Notes
Flow Cyt (Intra)		1/2500.
WB		1/1000 - 1/10000. Predicted molecular weight: 15 kDa.
IHC-P		1/500 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Perform antigen retrieval before commencing with IHC staining protocol.
ICC/IF		1/250 - 1/500.

## Target

**Relevance** Ubiquitin is a highly conserved nuclear and cytoplasmic protein that has a major role in targeting cellular proteins for degradation by the 26S proteasome. It is also involved in the maintenance of chromatin structure, the regulation of gene expression, and the stress response. Ubiquitin is synthesized as a precursor protein consisting of either polyubiquitin chains or a single ubiquitin moiety fused to an unrelated protein. UBA52 is a fusion protein consisting of ubiquitin at the N terminus and ribosomal protein L40 at the C terminus, a C-terminal extension protein (CEP). Multiple processed pseudogenes derived from this gene are present in the genome.

**Cellular localization** Ubiquitin: Cytoplasm. Nucleus. 60S ribosomal protein L40: Cytoplasm

## Images



**All lanes :** Anti-UBA52 antibody [EPR4546] (ab109227) at 1/1000 dilution

**Lane 1 :** Fetal kidney tissue lysate

**Lane 2 :** Human placenta tissue lysate

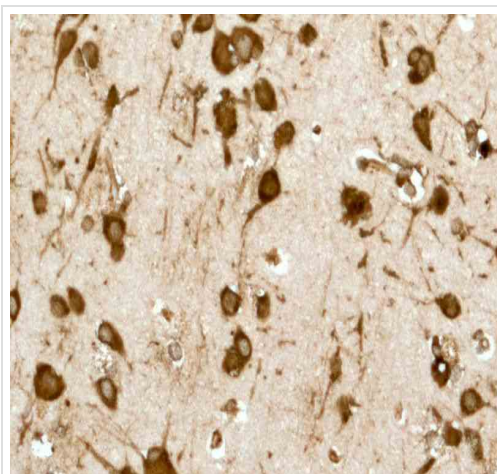
**Lane 3 :** 293T cell lysate

**Lane 4 :** JAR cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 15 kDa

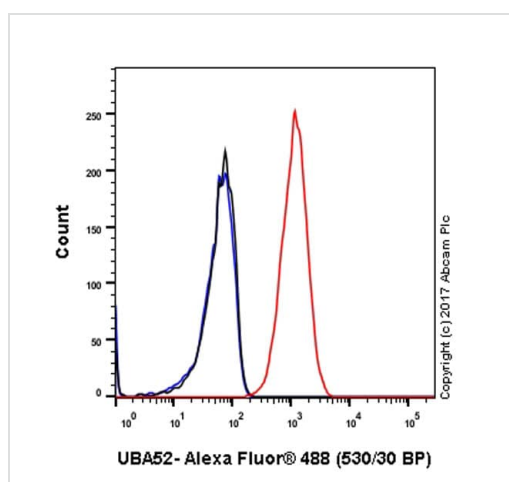
**Observed band size:** 10 kDa



Immunohistochemical analysis of paraffin-embedded Human brain tissue using 1/500 ab109227.

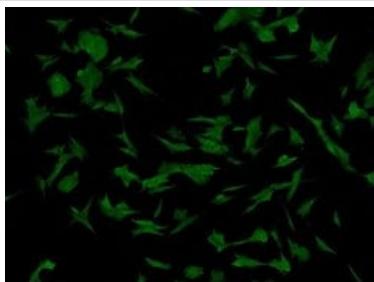
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-UBA52 antibody [EPR4546] (ab109227)



Intracellular Flow Cytometry analysis of HepG2 (Human hepatocellular carcinoma epithelial cell) cells labeling UBA52 (red) with purified ab109227 at a 1/2500 dilution (1µg/mL). Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A goat anti rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (Black) ([ab172730](#)). Blue (unlabeled control) - Cell without incubation with primary antibody and secondary antibody (Blue).

Flow Cytometry (Intracellular) - Anti-UBA52 antibody [EPR4546] (ab109227)



Immunofluorescent staining of SH-SY-5Y cells using ab109227 at 1/250

Immunocytochemistry/ Immunofluorescence - Anti-UBA52 antibody [EPR4546] (ab109227)

#### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-UBA52 antibody [EPR4546] (ab109227)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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