



[Go to Product page](#)

Datasheet for ABIN2784205  
**anti-UBA3 antibody (N-Term)**

3 Images

### Overview

Quantity:	100 µL
Target:	UBA3
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Zebrafish (Danio rerio), Cow, Dog, Pig, Rabbit, Horse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

### Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human UBA3
Sequence:	EGRWNHVKKF LERSGPFTHP DFEPTESLQ FLLDTCKVLV IGAGGLGCEL
Predicted Reactivity:	Cow: 100%, Dog: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 86%
Characteristics:	This is a rabbit polyclonal antibody against UBA3. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

### Target Details

Target:	UBA3
Alternative Name:	UBA3 ( <a href="#">UBA3 Products</a> )

## Target Details

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**Background:** UBA3 is a catalytic subunit of the dimeric UBA3-NAE1 E1 enzyme. E1 activates NEDD8 by first adenylating its C-terminal glycine residue with ATP, thereafter linking this residue to the side chain of the catalytic cysteine, yielding a NEDD8-UBA3 thioester and free AMP. E1 finally transfers NEDD8 to the catalytic cysteine of UBE2M. UBA3 down-regulates steroid receptor activity. UBA3 is necessary for cell cycle progression. The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E1 ubiquitin-activating enzyme family. The encoded enzyme associates with AppBp1, an amyloid beta precursor protein binding protein, to form a heterodimer, and then the enzyme complex activates NEDD8, a ubiquitin-like protein, which regulates cell division, signaling and embryogenesis. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.

Alias Symbols: DKFZp566J164, MGC22384, UBE1C, hUBA3

Protein Interaction Partner: UBA3, UBC, IMPA2, CPNE2, NEDD8, CAMK1D, NSFL1C, DCPS, KDM1A, PAPSS1, NAE1, XPO1, PCYT2, CAPN2, AHCY, ACAT2, NT5DC1, NUDCD2, TXNDC17, WDR61, UFC1, DSTN, VCL, UBE2H, PRDX2, TWF1, UBE2M, UIMC1, CHD3,

Protein Size: 463

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Molecular Weight: 52 kDa

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Gene ID: 9039

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NCBI Accession: [NM\\_003968](#), [NP\\_003959](#)

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UniProt: [Q8TBC4](#)

## Application Details

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**Application Notes:** Optimal working dilutions should be determined experimentally by the investigator.

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**Comment:** Antigen size: 463 AA

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Concentration:** Lot specific

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**Buffer:** Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 %

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## Handling

sucrose.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -20 °C

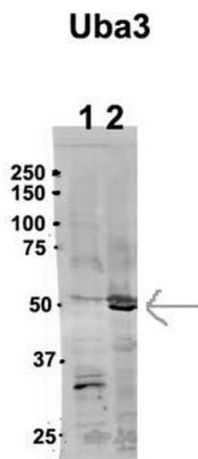
Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Images



### Western Blotting

**Image 1.** WB Suggested Anti-UBA3 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:1562500 Positive Control: Human Pancreas



See Immunoblot 2 Data for more information.

### Western Blotting

**Image 2. Sample Type:** 1. Human NT-2 cells (60ug)  
2. mouse brain extracts (80ug)

**Primary Antibody Dilution:** 2ug/ml

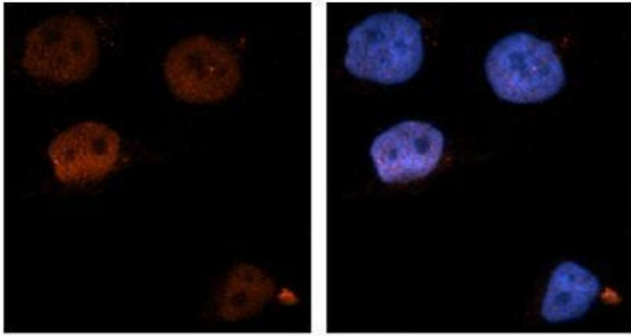
**Secondary Antibody:** IRDye 800CW goat anti-rabbit from LI-COR Bioscience

**Secondary Antibody Dilution:** 1: 20,000

**Image Submitted by:** Yuzhi Chen

University of Arkansas for Medical Science

UBA3



Antibody--RED  
DAPI--Blue

See IHC 1 Data and Customer Feedback for more information

Immunohistochemistry

**Image 3.** Sample Type : Human brain stem cells Primary Antibody Dilution : 1:500 Secondary Antibody : Goat anti-rabbit Alexa-Fluor 594 Secondary Antibody Dilution : 1:1000 Color/Signal Descriptions : UBA3: Red DAPI:Blue Gene Name : UBA3 Submitted by : Dr. Yuzhi Chen, University of Arkansas for Medical Science