

## Product datasheet for **TA382994S**

### Ubiquitin (UBB) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, WB
Recommended Dilution:	WB,1:500 - 1:2000 IHC,1:50 - 1:200 IF,1:50 - 1:200
Reactivity:	Human, Mouse, Rat, Other (Wide Range)
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human Ubiquitin.
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	25kDa
Gene Name:	ubiquitin B
Database Link:	<a href="#">Entrez Gene 7314 Human</a> <a href="#">POCG47</a>



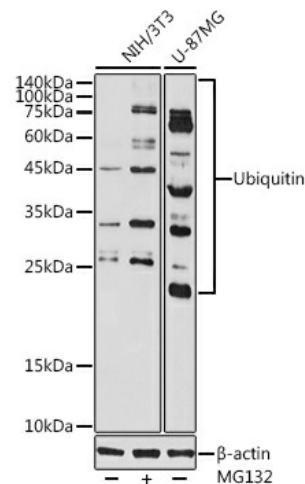
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**Background:**

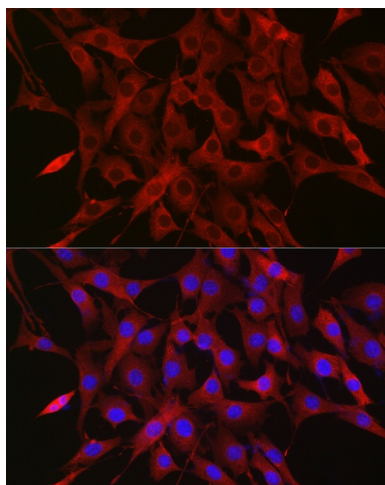
This gene encodes ubiquitin, one of the most conserved proteins known. Ubiquitin has a major role in targeting cellular proteins for degradation by the 26S proteasome. It is also involved in the maintenance of chromatin structure, the regulation of gene expression, and the stress response. Ubiquitin is synthesized as a precursor protein consisting of either polyubiquitin chains or a single ubiquitin moiety fused to an unrelated protein. This gene consists of three direct repeats of the ubiquitin coding sequence with no spacer sequence. Consequently, the protein is expressed as a polyubiquitin precursor with a final amino acid after the last repeat. An aberrant form of this protein has been detected in patients with Alzheimer's disease and Down syndrome. Pseudogenes of this gene are located on chromosomes 1, 2, 13, and 17. Alternative splicing results in multiple transcript variants.

**Synonyms:**

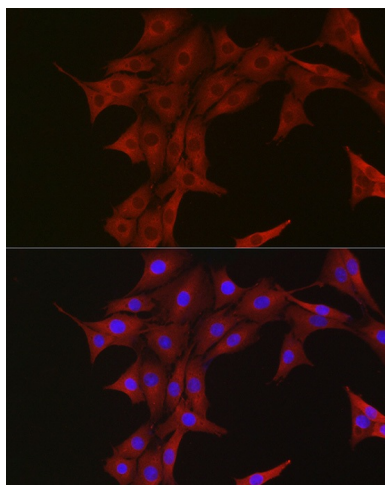
FLJ25987; MGC8385; OTTHUMP00000064960; OTTHUMP00000064961; UBA80; UBCEP1; UBCEP2

**Product images:**


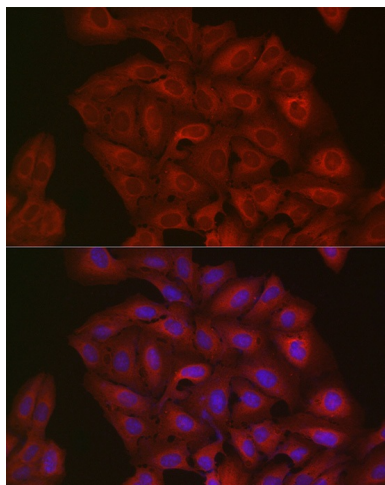
Western blot analysis of extracts of various cell lines, using Ubiquitin antibody (TA382994) at 1:1000 dilution. NIH/3T3 cells were treated by MG132 (50  $\mu$ M) at 37°C for 90 minutes. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit. | Exposure time: 180s.



Immunofluorescence analysis of NIH/3T3 cells using Ubiquitin Rabbit pAb ([TA382994]) at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of PC-12 cells using Ubiquitin Rabbit pAb ([TA382994]) at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U2OS cells using Ubiquitin Rabbit pAb ([TA382994]) at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.