

**Ub (Acetyl Lys48) Polyclonal Antibody**

<b>Catalog No :</b>	YK0056
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	Ub
<b>Fields :</b>	>>Ribosome;>>Ubiquitin mediated proteolysis;>>Mitophagy - animal;>>Parkinson disease;>>Pathways of neurodegeneration - multiple diseases;>>Shigellosis;>>Kaposi sarcoma-associated herpesvirus infection;>>Coronavirus disease - COVID-19
<b>Gene Name :</b>	UBA52/RPS27A/UBB/UBC
<b>Protein Name :</b>	Ubiquitin
<b>Human Swiss Prot No :</b>	P62987/P62979/P0CG47/P0CG48
<b>Immunogen :</b>	Synthesized acetyl-peptide derived from the human Ub around the acetylation site of K48.
<b>Specificity :</b>	Acetyl-Ub (K48) Polyclonal AntibodySynthesized peptide derived from the human Ub around the acetylation site of K48.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 80kD

**Cell Pathway :** Ribosome;

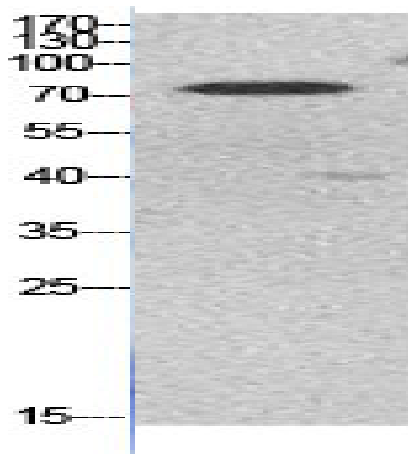
**Background :** Ubiquitin is a highly conserved nuclear and cytoplasmic protein that has a major role in targeting cellular proteins for degradation by the 26S proteasome. It is also involved in the maintenance of chromatin structure, the regulation of gene expression, and the stress response. Ubiquitin is synthesized as a precursor protein consisting of either polyubiquitin chains or a single ubiquitin moiety fused to an unrelated protein. This gene encodes 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. [provided by RefSeq, Jul 2008],

**Function :** function:Protein modifier which can be covalently attached to target lysines either as a monomer or as a lysine-linked polymer. Attachment to proteins as a Lys-48-linked polymer usually leads to their degradation by proteasome. Attachment to proteins as a monomer or as an alternatively linked polymer does not lead to proteasomal degradation and may be required for numerous functions, including maintenance of chromatin structure, regulation of gene expression, stress response, ribosome biogenesis and DNA repair.,miscellaneous:This ribosomal protein is synthesized as a C-terminal extension protein (CEP) of ubiquitin.,miscellaneous:Ubiquitin is synthesized as a polyubiquitin precursor with exact head to tail repeats, the number of repeats differ between species and strains. In some species there is a final amino-acid after the last repeat, here in human a Val. Some ubiquitin genes contain a

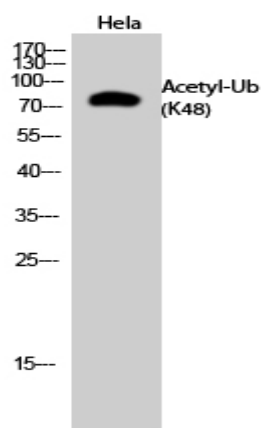
**Subcellular Location :** [Ubiquitin]: Cytoplasm . Nucleus .; [60S ribosomal protein L40]: Cytoplasm .

**Expression :** Brain,Epithelium,Fetal brain cortex,Liver,L

## Products Images



Western Blot analysis of HeLa cells using Acetyl-Ub (K48) Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western Blot analysis of HeLa cells using Acetyl-Ub (K48)  
Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was  
diluted at 1:20000