

## UBE1L Monoclonal Antibody

<b>Catalog No :</b>	YM0643
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	UBE1L
<b>Fields :</b>	>>Ubiquitin mediated proteolysis;>>Parkinson disease;>>Pathways of neurodegeneration - multiple diseases
<b>Gene Name :</b>	UBA7
<b>Protein Name :</b>	Ubiquitin-like modifier-activating enzyme 7
<b>Human Gene Id :</b>	7318
<b>Human Swiss Prot No :</b>	P41226
<b>Immunogen :</b>	Purified recombinant fragment of human UBE1L expressed in E. Coli.
<b>Specificity :</b>	UBE1L Monoclonal Antibody detects endogenous levels of UBE1L protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	112kD
<b>Cell Pathway :</b>	Ubiquitin mediated proteolysis;Parkinson's disease;

**P References :**

1. Cancer Res. 1992 Mar 15;52(6):1536-41
2. Proc Natl Acad Sci U S A. 1993 Jul 1;90(13):6071-5.
3. Proc Natl Acad Sci U S A. 2002 Mar 19;99(6):3806-11.

**Background :**

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 is a retinoid target that triggers promyelocytic leukemia (PML)/retinoic acid receptor alpha (RARalpha) degradation and apoptosis in acute promyelocytic leukemia, where it is involved in the conjugation of the ubiquitin-like interferon-stimulated gene 15 protein. [provided by RefSeq, Jul 2008],

**Function :**

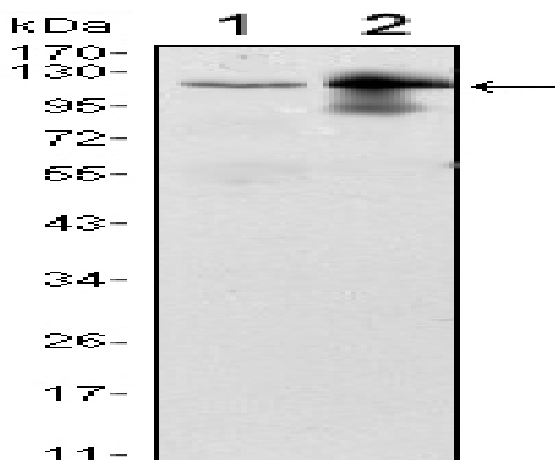
function:Activates ubiquitin by first adenylating with ATP its C-terminal glycine residue and thereafter linking this residue to the side chain of a cysteine residue in E1, yielding an ubiquitin-E1 thioester and free AMP.,miscellaneous:There are two active sites within the E1 molecule, allowing it to accommodate two ubiquitin moieties at a time, with a new ubiquitin forming an adenylate intermediate as the previous one is transferred to the thiol site.,pathway:Protein modification; protein ubiquitination.,similarity:Belongs to the ubiquitin-activating E1 family.,subunit:Monomer (By similarity). Binds and is involved in the conjugation of G1P2/ISG15.,tissue specificity:Expressed in a variety of normal and tumor cell types, but is reduced in lung cancer cell lines.,

**Subcellular Location :**

nucleus,nucleoplasm,cytosol,

**Expression :**

Expressed in a variety of normal and tumor cell types, but is reduced in lung cancer cell lines.

**Products Images**

Western Blot analysis using UBE1L Monoclonal Antibody against Raji (1) and THP-1 (2) cell lysate.