

RPCB0121

## Product Information

<b>Product SKU:</b>	RPCB0121	<b>Gene ID:</b>	7314	<b>Size:</b>	20µg
<b>Tag:</b>	N-His	<b>Reactivity:</b>	Human		

## Additional Information

<b>Expression Host:</b>	-	<b>Swissprot:</b>	P0CG47
<b>Purity:</b>	> 95% by SDS-PAGE.		

## Protein Information

<b>Background:</b>	UBB is a 76 amino acid (aa) protein that is ubiquitously expressed in all eukaryotic organisms. Ubiquitin is highly conserved with 96% aa sequence identity shared between human and yeast Ubiquitin, and 100% aa sequence identity shared between human and mouse Ubiquitin. In mammals, four Ubiquitin genes encode for two Ubiquitin-ribosomal fusion proteins and two poly-Ubiquitin proteins. Conjugation of Ubiquitin to target proteins involves the formation of an isopeptide bond between the C-terminal glycine residue of Ubiquitin and a lysine residue in the target protein. This process of conjugation, referred to as ubiquitination or ubiquitylation, is a multi-step process that requires three enzymes. Ubiquitination is classically recognized as a mechanism to target proteins for degradation and as a result, Ubiquitin was originally named ATP-dependent Proteolysis Factor 1 (APF-1). In addition to protein degradation, ubiquitination has been shown to mediate a variety of biological processes such as signal transduction, endocytosis, and post-endocytic sorting.
<b>Protein Description:</b>	High quality, high purity and low endotoxin recombinant Recombinant Human Ubiquitin protein , tested reactivity in E. coli and has been validated in SDS-PAGE. 100% guaranteed.
<b>Endotoxin:</b>	< 0.1 EU/µg of the protein by LAL method.
<b>Formulation:</b>	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

**Storage:**

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.