

## Direct-Blot™ HRP anti-Ubiquitin Antibody

<b>Catalog# / Size</b>	646304 / 25 µL 646303 / 100 µL
<b>Clone</b>	P4D1
<b>Regulatory Status</b>	RUO
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	Ubiquitin is a highly-conserved small protein expressed in all eukaryotes. It is involved in a post-translation modification of proteins called ubiquitination of proteins by the covalent attachment (via an isopeptide bond) of one or more than one ubiquitin monomers. Ubiquitination controls the protein degradation, stability and intracellular localization of many proteins.

### Product Details

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<b>Verified Reactivity</b>	All Species
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Denatured glutaraldehyde cross-linked ubiquitin IgG complex
<b>Formulation</b>	This antibody is provided in 50% glycerol in aqueous buffered solutions with preservatives.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with HRP under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	Upon receipt, the antibody solution should be stored undiluted at -20°C, and protected from prolonged exposure to light.
<b>Application</b>	<a href="#">WB - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">Western blotting</a> . For Western blotting, the suggested dilution is 1:1000-1:4000. The optimal dilution should be determined by titration for each individual assay of interest.  25 µl and 100 µl of Direct-Blot™ HRP antibody can be used for approximately 5 and 20 Western blots, respectively, at the recommended concentration/dilution.
<b>Application Notes</b>	This antibody recognizes ubiquitin, polyubiquitin, and ubiquitin-conjugated proteins. This clone is equivalent to Clone P4G7. The ubiquitin protein is extremely well conserved and thus the antibody has extensive species cross-reactivity from yeast to human. This antibody was specifically developed to detect ubiquitin and ubiquitin-substrate conjugates by immunoblotting. Because the antibody recognizes a denatured epitope, it is known to not work in immunoprecipitation or immunostaining applications.
<b>Application References</b>	1. Magnaudeix A, <i>et al.</i> 2013. <i>Neurobiol Aging</i> . 34:770. <a href="#">PubMed</a> .
<b>(PubMed link indicates BioLegend citation)</b>	
<b>RRID</b>	AB_2734516 (BioLegend Cat. No. 646304) AB_2629597 (BioLegend Cat. No. 646303)

### Antigen Details

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<b>Structure</b>	Consists of 76 amino acids and has a molecular mass of about 8.5 kd. Highly conserved among
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all eukaryotic species.

<b>Biology Area</b>	Cell Biology, Neurodegeneration, Neuroscience, Neuroscience Cell Markers, Protein Trafficking and Clearance, Ubiquitin/Protein Degradation
<b>Molecular Family</b>	Autophagosome Markers
<b>Antigen References</b>	1. Kahana, <i>et al.</i> 1999. <i>Mol. Cell Biol</i> 19:6608 2. Ciechanover A, <i>et al.</i> 1998. <i>EMBO J</i> 17:7151 3. Xu P, <i>et al.</i> 2008. <i>Analytical Chemistry</i> 80:3438
<b>Gene ID</b>	<a href="#">6233</a>

## Related Protocols

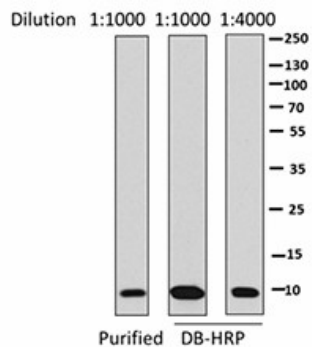
[Direct-Blot™ HRP Antibodies Save You Time - Video](#)

[Direct-Blot™ Western Blotting Protocol](#)

## Other Formats

Purified anti-Ubiquitin, Direct-Blot™ HRP anti-Ubiquitin, Biotin anti-Ubiquitin

## Product Data



Recombinant mouse Ubiquitin (100 ng) was resolved by electrophoresis, transferred to a nitrocellulose membrane, and probed with purified or Direct-Blot™ HRP anti-Ubiquitin antibody (clone P4D1). Proteins were visualized using chemiluminescence detection.

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