

## Overview

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<b>Product Name</b>	Anti-diUbiquitin K48-linkage Affimer (36-16)
<b>Catalogue Code</b>	AVA00018
<b>Description</b>	Affimer (36-16) to diUbiquitin K48-linkage
<b>Clone ID</b>	36-16
<b>Tested Applications</b>	Direct ELISA
<b>Tags</b>	C-term 6His
<b>Conjugate</b>	None

## Properties

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<b>Form</b>	Liquid
<b>Storage Instructions</b>	For short term use, store at 4°C. We recommend aliquoting and storing at -20°C long term. Affimers are generally unaffected by 3-4 freeze/thaw cycles.
<b>Buffer</b>	100mM Sodium Phosphate, 75mM Sodium Chloride, 0.02% Sodium Azide, pH 6.5
<b>Purity</b>	>95%
<b>Purification Method</b>	IMAC-SEC
<b>Clonality</b>	Monoclonal

## Target

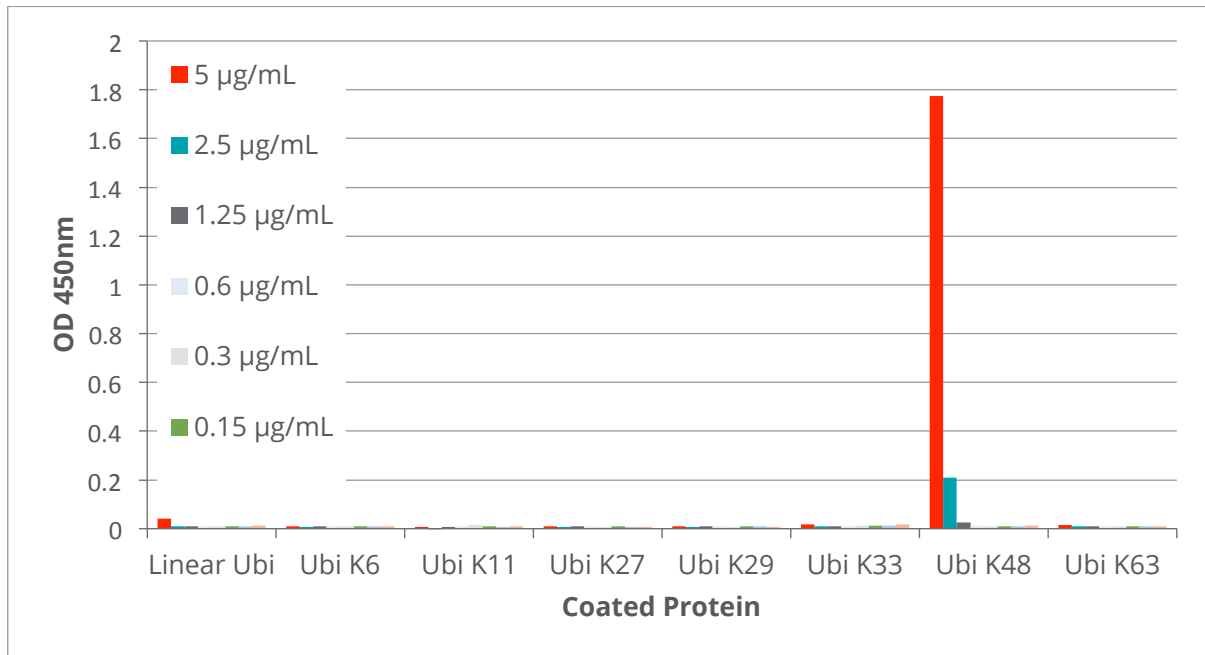
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<b>Target</b>	diUbiquitin K48-linkage
<b>Affimer Reactivity</b>	Human
<b>Target Uniprot ID</b>	P0CG47
<b>Target Function</b>	Ubiquitin is one of the most conserved proteins known. It has a role in targeting cellular proteins for degradation. It is involved in sub-cellular targeting, the maintenance of chromatin structure, DNA repair, regulation of gene expression and cell cycle, kinase modification, endocytosis, the regulation of other cell signaling pathways 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 3 repeats of the ubiquitin sequence with no spacer. An aberrant form of the protein has been detected in patients with Alzheimer's disease and Down syndrome.
<b>Research Area</b>	Cell Signalling / UPS

**Applications**

**Direct ELISA** [assumes this is normally direct ELISA or delete below]

This Affimer has been tested in direct ELISA against the following proteins using the method shown below.



**Coating:** Nunc Maxisorp 96-well flat-bottomed plates coated with target protein at 1 µg/ml in 15mM Sodium Carbonate, 35mM Sodium Bicarbonate, pH 9.0 for 16h at 4°C  
**Wash 1:** 3 x 300 µl of 1xPBS-T (0.05% Tween-20)  
**Blocking:** 1 x Sigma Block (2 h, RT°C, 400 rpm)  
**Wash 2:** 3 x 300 µl of 1xPBS-T (0.05% Tween-20)  
**Affimer Incubation:** 2µg/ml in 1x Sigma Block PBS (1 h, RT°C, 400 rpm)  
**Wash 3:** 3 x 300 µl of 1xPBS-T (0.05% Tween-20)  
**Detection:** Rabbit anti-6xHis HRP conjugate, 1/10,000 dilution in 1 x Sigma Block PBS  
**Wash 4:** 3 x 300 µl of 1xPBS-T (0.05% Tween-20)  
**Substrate:** TMB, stopped with 0.5M H2SO4