

Af1521 Macrodomein Covalent Resin Set Catalog #4508

One Set Contains 1 each of the following...

Af1521 Macrodomein Covalent Resin
Negative Control Covalent Resin

Catalog #2506

Catalog #2507

LIMITATIONS: THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT APPROVED FOR THERAPEUTIC OR DIAGNOSTIC USE.

Description and Background:

The Tulip BioLabs Af1521 Macrodomein Covalent Resin Set is designed for the isolation and study of mono- (MARylated) and poly-ADP-ribosylated (PARylated) proteins. Through the use of the Cat. #2506 affinity resin, MARylated and PARylated proteins can be isolated from cell or tissue lysates. The resin bound proteins can be eluted from the affinity resin, and analyzed by immunoblotting or other methods. Typical conditions for the elution of the affinity bound proteins to the resin, for example SDS-PAGE sample buffer, will not dissociate the Af1521 macrodomein protein from the resin. The Cat. #2507 negative control resin is useful to optimize experimental conditions to minimize non-specific binding to the resin.

Af1521 is a thermophilic protein from *Archaeoglobus fulgidus*, and contains a conserved ~190 amino acid domain known as the macrodomein. Macrodomeins are found in a wide variety of organisms including bacteria, viruses, and vertebrates. Expressed and purified macrodomeins from Af1521, Alc1, macroH2A and Bal/PARP9 proteins have been shown to bind to a subset of polymeric and monomeric ADP-ribose modified proteins with high specificity and affinity.

What's included:

The Af1521 Macrodomein Covalent Resin Set, Cat. #4508 contains 1 each of the following:

- **Cat. #2506 Af1521 Macrodomein Covalent Resin, 0.5mg** (1mg/mL fusion protein supplied as a slurry containing ~50 μ L packed resin).
- **Cat. #2507 Negative Control Covalent Resin, 0.5mL** (supplied as a slurry containing ~50 μ L packed resin; this is the same resin as Cat. #2506 except here modified to an alpha amino carboxylic acid instead of conjugated to protein).

Details:

See the attached datasheets for Cat. #2506 and #2507 for further details on usage, storage, etc.

Tulip BioLabs Other Related Products:

PARP1, Automodified, human, Cat. #2095, a useful positive control for PARylation.

Af1521 Macrodomein Mag Resin, Cat. #2426 (same as Cat. #2506 except covalently bound to magnetic resin).

Af1521 Macrodomein Affinity Resin, Cat. #2302 (same as Cat. #2506 except non-covalently bound to glutathione resin).

Anti-poly(ADP-ribose) polymer, clone 10H, mouse monoclonal antibody, Cat. #1020, for detection of PARylation.

Anti-poly(ADP-ribose) polymer, IgY, chicken polyclonal antibody, Cat. #1023, for detection of PARylation.