



6352 CORTE DEL ABETO, STE B  
CARLSBAD, CA 92011 USA  
01.858.642.1988 • WWW.ATSBIO.COM

**Antibody to Tri-methyl Lysine**  
Rabbit Polyclonal

**Catalog Number:** AB-265  
**Quantity:** 100 micrograms  
**Format:** PBS with 50% glycerol  
**Host:** Rabbit  
**Immunogen:** methylated lysines conjugated to KLH

**Specificity and Preparation:**

This antibody will detect proteins with N-trimethylated lysine residues. It will not cross-react with acetylated proteins or mono- and dimethylated proteins. Since the epitope is N-trimethylated lysine, it will detect this epitope on any protein. The antibody is affinity-purified from the antiserum against chemically-methylated protein antigen. It is adsorbed using N-(epsilon) mono- and dimethylated lysines.

**Usage and Storage:**

Reported to be effective for ELISA (1:2000), immunoblotting (western blot, 1:1000), immunoprecipitation (5  $\mu$ g/mg protein sample), immunofluorescent staining (5  $\mu$ g/ml or 1:100), and immunohistochemistry (1:1000). Store the antibody at -20°C. The material is stable for up to twelve months. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

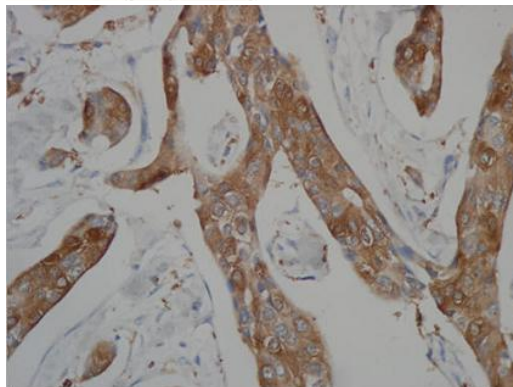
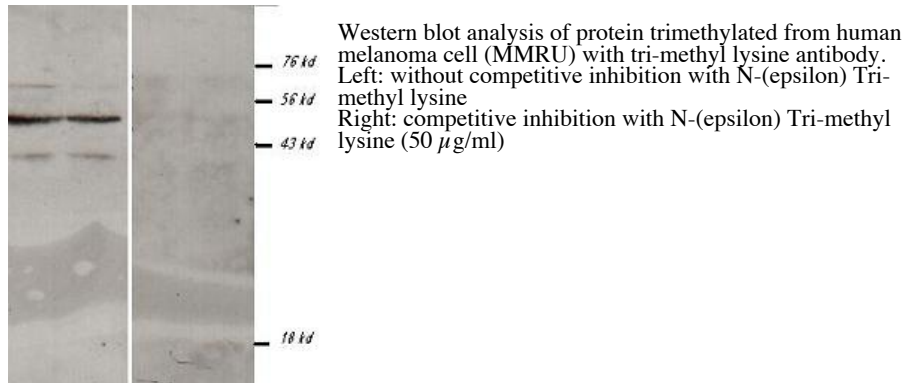
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**References:**

1. Małeckı J, Willemen HLDM, Pinto R, Ho AYY, Moen A, Eijkelkamp N, & Falnes PO. Human FAM173A is a mitochondrial lysine-specific methyltransferase that targets adenine nucleotide translocase and affects mitochondrial respiration. (2019). *J Biol Chem*. DOI: 10.1074/jbc.RA119.009045
2. Serre NBC, Sarthou M, Gigarel O, Figuet S, Corso M, Choulet J, Rofidal V, Alban C, Santoni V, Bourguignon J, Verbruggen N, & Ravanel S. Evidence for the involvement of protein lysine methylation in the response of sensitive and tolerant Arabidopsis species to cadmium stress. (2019). bioRxiv652651.
3. Serre NBC, Sarthou M, Gigarel O, Figuet S, Corso M, Choulet J, Rofidal V, Alban C, Santoni V, Bourguignon J, Verbruggen N, & Ravanel S. Protein lysine methylation contributes to modulating the response of sensitive and tolerant Arabidopsis species to cadmium stress. (2019). *Plant Cell Environ*, DOI: 10.1111/pce.13692

Application: Western

To view protocol(s) for this and other products please visit: [www.ATSBio.com/support/protocols](http://www.ATSBio.com/support/protocols)



Immunohistochemistry staining of the human tissue with tri-methyl lysine antibody.