

This product is for research use only (not for diagnostic or therapeutic use)

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Product no AS20 4440

Anti-BirA (mutated/TurboID)

Product information

Immunogen Recombinant mutated BirA protein from E.coli produced using the following plasmid: TurboID-His6_pET21a, (Plasmid #107177). Expression was done in a vector that allowed for the generation of an untagged protein (without HIS6tag).

Host Rabbit

Clonality Polyclonal

Purity Immunogen affinity purified serum in PBS pH 7.4.

Format Lyophilized

Quantity 50 μg

Reconstitution For reconstitution add 50 μl, of sterile water

Store lyophilized/reconstituted at -20 °C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to

the cap or sides of the tube.

Application information

Recommended dilution 1:5000 (WB)

Expected | apparent

35 kDa

Confirmed reactivity BirA (mutated/TurboID)

10.1016/j.xpro.2023.102577.

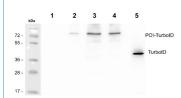
Predicted reactivity mini TurboID

Not reactive in No confirmed exceptions from predicted reactivity are currently known

Selected references

Persyn et al. (2024). A Nitrogen-Specific Interactome Analysis Sheds Light on the Role of the SnRK1 and TOR Kinases in Plant Nitrogen Signaling. Mol Cell Proteomics. 100842. doi: 10.1016/j.mcpro.2024.100842. Liu et al. (2024). Activation of kappa opioid receptor suppresses post-traumatic osteoarthritis via sequestering STAT3 on the plasma membrane. Cell Commun Signal. 2024 Jun 18;22(1):335.doi: 10.1186/s12964-024-01709-4. Medica et al. (2023). Proximity-dependent mapping of the HCMV US28 interactome identifies RhoGEF signaling as a

requirement for efficient viral reactivation. PLoS Pathog. 2023 Oct 2;19(10):e1011682.doi: 10.1371/journal.ppat.1011682. Shi et al. (2023). Protocol to identify protein-protein interaction networks in Solanum tuberosum using transient TurboID-based proximity labeling. STAR Protoc. 2023 Sep 20;4(4):102577.doi:



- 1 20 μg A. thaliana Wt Col-0 (Negative control)
- 2 20 μg of A. thaliana expressing POI-TurboID fusion (Independent line 1)
- 3 20 μg of A. thaliana expressing POI-TurboID fusion (Independent line 2)
- 4 20 µg of A. thaliana expressing POI-TurboID fusion (Independent line 3)
- 5 10 ng of purified TurboID (Positive control)

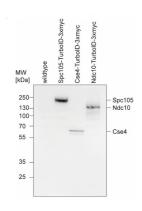
20 μg/well of total protein were extracted from Arabidopsis thaliana leaf material in diluted HENS (25mM HEPES pH 7.7, 1mM EDTA, 2.5 % SDS) and stored at -80 °C. Samples were denatured in 1x protein loading dye (0.5% Sodium dodecyl Sulfate, 0.002% Bromophenol Blue, 10% glycerol, and 50 mM Tris-HCl pH6.8) at 95°C for 5 min. Samples were separated on 4-16% gradient SDS-PAGE gel and blotted 1h to a nitrocellulose membrane (pore size of 0.45 um), using a semi-dry transfer. Blot was blocked with 5% milk in TBS-T at 4°C/ON without agitation. Blot was incubated in the primary antibody at a dilution of 1:5000 in 5% milk in TBS-T, at 4°C, ON without agitation. The antibody solution was decanted and the blot was rinsed briefly, then washed three times for 10 min in TBS-T at RT with agitation. Blot was incubated in Agrisera matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, AS09 602) diluted to 1:25 000 in TBS-T for 1h at RT with agitation. The blot was washed as above and developed for 2 min with Agrisera ECLBright. Exposure time was 172 seconds.



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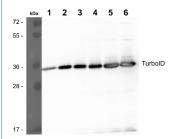


Samples:

- 1 wildtype strain DDY902
- 2 Spc105-TurboID-3xmyc, MW: 135 kDa
- 3 Ces4-TurboID-3xmyc, MW: 57 kDa
- 4 Ndc10-TurboID-3xymyc, MW: 140 kDa

1 μ g/well of total protein extracted freshly from *Saccharomyces cerevisiae* according to <u>Kushnirov</u>, 2000. Exact buffer components were: (6xLD = 300mM Tris pH6.8, 12% SDS, 60% Glycerol, 4% beta-Mercaptoethanol, Bromphenol blue) and denatured with 50 μ l 2x LD (in ddH₂O diluted) at 95°C 5 min. Samples were separated on 10 % SDS-PAGE and blotted for 2 h, 400 mA constant to nitrocellulose (pore size of 0.45 μ m), using: wet transfer in the cold. Blot was blocked with 5 % milk for: 1h/RT with agitation. Following membrane washes, the blot was incubated in the primary antibody at a dilution of 1:5 000 in 5% milk in TBST with agitation ON/4°C. The antibody solution was decanted, and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1: 20 000 in 5% milk in TBST for 1 h/RT with agitation. The blot was washed as above and developed with a following chemiluminescent detection reagent. Exposure time was 2 minutes.

Courtesy of Dr. Sonja Haberkorn, Molekulare Genetik, Universität Duisburg-Essen, Germany



1 – 1 ng of purified TurboID 2 – 5 ng of purified TurboID 3 – 10 ng of purified TurboID 4 – 25 ng of purified TurboID 5 – 50 ng of purified TurboID 6 – 75 ng of purified TurboID Mark: PageRulerTM Plus Prestained Protein Ladder; ThermoFisher Scientific; MW of TurboID = 35 kDa

1ng, 5 ng, 10 ng, 25 ng, 50 ng, and 75 ng loaded into wells 1, 2, 3, 4, 5, and 6, respectively, of purified TurbolD in 1x Phosphate Buffer Saline (PBS) were stored at -80°C. Samples were denatured in 1x protein loading dye (0.5% Sodium dodecyl Sulfate, 0.002% Bromophenol Blue, 10% glycerol, and 50 mM Tris-HCl pH6.8) at 95°C for 5 min. Samples were separated on 4-16% gradient SDS-PAGE gel and blotted 1h to a nitrocellulose membrane (pore size of 0.45 um), using a semi-dry transfer. Blot was blocked with 5% milk in TBS-T at 4°C/ON without agitation. Blot was incubated in the primary antibody at a dilution of 1:1000 in 5% TBS-T, at 4°C, ON without agitation. The antibody solution was decanted and the blot was rinsed briefly, then washed three times for 10 min in TBS-T at RT with agitation. Blot was incubated in Agrisera matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, <u>AS09 602</u>) diluted to 1:25 000 in TBS-T for 1h at RT with agitation. The blot was washed as above and developed for 2 min with <u>Agrisera ECLBright</u>. Exposure time was 92 seconds.

Courtesy of Eli Gordon and Dr. Patrick Treffon, Elizabeth Vierling Lab Department of Biochemistry and Molecular Biology University of Massachusetts Amherst. USA