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| Title: | ESCORTing proteins directly from whole cell-lysate for single-molecule studies |
| Authors: | Rakshit, S. (/jspui/browse?type=author&value=Rakshit%2C+S.) |
| Keywords: | Protein-protein interactions Pull-down assays Surface modification |
| Issue Date: | 2017 |
| Publisher: | Pubmed. |
| Citation: | Analytical Biochemistry, 535 |
| Abstract: | We have developed a method for Enzymatic Sortase-assisted Covalent Orientation-specific Restraint Tethering (ESCORT) recombinant proteins onto surfaces directly from cell-lysate. With an improved surface passivation method, we obviate the cumbersome purification steps even for single molecule studies that demand high purity in the sample. We demonstrated high-specificity of the method, high-passivity of the surface and uncompromised functional integrity of anchored proteins using single molecule fluorescence and force-mapping. We anticipate that this method will substantially reduce the investment by way of time, money and energy in the area of single molecule studies. |
| URI: | https://pubmed.ncbi.nlm.nih.gov/28756135/ (https://pubmed.ncbi.nlm.nih.gov/28756135/) http://hdl.handle.net/123456789/1791 (http://hdl.handle.net/123456789/1791) |
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