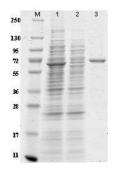


Immunoprecipitation Kit: DYKDDDDK (FLAG®) for immunoprecipitation and purification of recombinant proteins containing the FLAG® epitope tag - KBA-319-383

Code: KBA-319-383 Size: 1 Kit Product Description: Immunoprecipitation Kit: DYKDDDDK (FLAG®) for immunoprecipitation and purification of recombinant proteins containing the FLAG® epitope tag - KBA-319-383 PhysicalState: n/a Label Unconjugated Stabilizer None **Storage Condition** See kit insert for complete instructions. FLAG® TAG Immunoprecipitation Kit, Immunoprecipitation Kit for FLAG Antibody, DYKDDDDK, Anti-Svnonvms DYKDDDDK IP Kit, IP FLAG Antibody KIT, DDK, FLAG, FLAG antibody, anti-Flag, anti-DDK, DDK antibody Rockland Immunochemicals' Anti-DYKDDDDK (FLAG®) Kit for Immunoprecipitation is intended to provide a simple, reliable and convenient purification system for recombinant proteins containing the FLAG® epitope tag. **Application Note** Immunoprecipitation is a powerful technique for the isolation of proteins or protein complexes Immunoprecipitation consists of several steps including cell lysis, binding of specific antigen to an antibody, antibody-antigen complex precipitation, precipitant wash steps and the dissociation of antigen from the complex. The FLAG® epitope tag is a small but highly immunogenic peptide DYKDDDDK (N-Asp-Tyr-Lys-Asp-Asp-Asp-Asp-Asp-Lys-C), which allows fusion proteins to retain their original conformation and function. The hydrophilic character of FLAG® increases the likelihood that it will be located on the surface of the fusion protein where it is accessible to antibodies. Rockland Immunoprecipitation and elution of an active FLAG® / kit for Immunoprecipitation allows a rapid and efficient immunoprecipitation and elution of an active FLAG® -tagged recombinant protein in less than 2 hours. The immunoprecipitation is performed with anti-FLAG® antibody coupled to agarose beads, which are generated by covalently linking agarose to a highly specific mouse monoclonal antibody raised against FLAG®. The provided protocol is a guideline. Any procedure can be altered according to specific experimental requirements. This kit is sufficient to perform 50 X 20 µL reactions and is stable for at least 1 year when stored as indicated. Rockland Immunochemicals' Anti-DYKDDDDK (FLAG®) Kit for Immunoprecipitation allows for the purification by immunoprecipitation of recombinant proteins containing the FLAG® epitope tag provided by the user. The kit relies upon the high specificity of monoclonal antibody raised against the FLAG® epitope tag. This method is far easier and less costly than using antibodies produced against the recombinant protein itself therefore saving Background time and resources. Using the agarose bound antibody in this kit allows for efficient binding of FLAG® tag proteins without the need for preliminary steps or calibration. The immunoprecipitated FLAG® tag protein can be efficiently eluted from the agarose beads using a low pH elution step. The user is able to further characterize the resultant purified protein by size, post-translational modification, western blot and other assays. This kit contains: anti-FLAG® coupled to agarose; FLAG® positive control lysate; 2X SDS-PAGE Sample Buffer; Neutralization Buffer; 1X Lysis Buffer; 10X Wash Buffer; Elution Buffer; along with additional instructions **Purity And Specificity** and supplies (see protocol). **Assay Dilutions** User Optimized Other Assays User Optimized Expiration See kit insert for complete instructions. Brizzard BL, Chubet RG, Vizard DL.(1994) Immunoaffinity purification of FLAG epitope-tagged bacterial **General Reference** alkaline phosphatase using a novel monoclonal antibody and peptide elution. Biotechniques 4:730-5. Chiang CM, Roeder RG. (1993) Expression and purification of general transcription factors by FLAG epitope-tagging and peptide elution. Pept Res. 6(2):62-4. Knappik A, Plückthun A. (1994) An improved affinity tag based on the FLAG peptide for the detection and purification of recombinant antibody fragments. Biotechniques 4:754-61. **Related Products Related Links** Immunoprecipitation Kit Protocol: FLAG Epitope Tag Images 1 Rockland produces kits to meet the requirements of researchers for highly sensitive chemiluminescence and other antibody based assays.



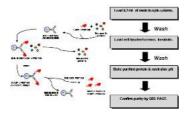
Coomassie stained SDS-PAGE using Anti-DYKDDDDK (FLAG®) Kit for Immunoprecipitation to purify recombinant proteins containing the FLAG® epitope tag from an E.coli cell lysate. Lane 1- cell lysate before immunoprecipitation. Lane 2- cell lysate after immunoprecipitation showing depletion of protein. Lane 3 - purified FLAG® -tagged recombinant protein.



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Immunoprecipitation and Flow diagram for Anti-DYKDDDDK (FLAG®) Kit#Antibody binding principles are shown for the Anti-DYKDDDDK (FLAG®) Kit to purify FLAG® - tagged recombinant proteins. The anti-FLAG® antibody bound to agarose beads captures the FLAG® - tagged recombinant protein from solution. After copious washing with PBS, the buffer condition is changed allowing the release and collection of the highly purified recombinant protein.



Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.