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| Key Resources Table |
| Reagent type (species) or resource | Designation | Source or reference | Identifiers | Additional information |
| cell line (*Homo-sapiens*) | Cervical (cancerous, Adult) | (Bucci, Parton et al., 1992, Villasenor, Nonaka et al., 2015) | HeLa Kyoto | STR and mycoplasma testing: ongoing |
| Rabex5 KO cell line (*Homo-sapiens*) | Cervical (cancerous, Adult) | In house, Materials and Methods: Rabex5 Knockout and Rescue | HeLa Kyoto Rabex5 Knockout | STR and mycoplasma testing: ongoing |
| transfected construct (*Homo sapiens*) | hRabex5 | Synthesized by GenScript | pCMV5 Flag-Smad1 | BglII and SalI sites used for ligation |
| transfected construct (*Homo sapiens*) | hRabexLinker | Synthesized by GenScript | pCMV5 Flag-Smad1 | BglII and SalI sites used for ligation |
| transfected construct (*Homo sapiens*) | hRabexUBD | Synthesized by GenScript | pCMV5 Flag-Smad1 | BglII and SalI sites used for ligation |
| antibody | anti-EEA1 (Rabbit polyclonal) | (Franke, Repnik et al., 2019) |  | IF (1:1000), WB (1:1000) |
| antibody | anti-HA-tag (Mouse monoclonal) | Sigma |  | IF (1:200) |
| recombinant DNA reagent | pOEM-1 N-His | Oxford Expression Technologies, This paper |  Rabex5 | NotI and AscI sites used for ligation |
| recombinant DNA reagent | pOEM-1 N-His | Oxford Expression Technologies, This paper |  Rabex5RpBD | NotI and AscI sites used for ligation |
| recombinant DNA reagent | pOEM-1 N-His | Oxford Expression Technologies, This paper |  Rabex5UBD | NotI and AscI sites used for ligation |
| recombinant DNA reagent | pOEM-1 N-His | Oxford Expression Technologies, This paper |  Rabex5Linker | NotI and AscI sites used for ligation |
| recombinant DNA reagent | pOEM-1 N-His | Oxford Expression Technologies, This paper |  RabexCAT | NotI and AscI sites used for ligation |
| recombinant DNA reagent | pOEM-1 N-GST | Oxford Expression Technologies, This paper |  Rabaptin5 | NotI and AscI sites used for ligation |
| software | HDX Workbench | Omics Informatics |  |   |
| chemical compound | GTPgS | Sigma | [G8634](https://www.sigmaaldrich.com/catalog/product/sigma/g8634?lang=de&region=DE) |  |
| chemical compound | GTP | Sigma | [10106399001](https://www.sigmaaldrich.com/catalog/product/roche/10106399001?lang=de&region=DE) |  |
| chemical compound | Mant-GDP | Jena Biosciences | NU-204L |  |
| chemical compound | Urea | Sigma | [U4883](https://www.sigmaaldrich.com/catalog/product/sigma/u4883?lang=de&region=DE) |  |
| chemical compound | deuterium oxide | Sigma | [151882](https://www.sigmaaldrich.com/catalog/product/aldrich/151882?lang=de&region=DE) |  |
| chemical compound | TFA | Sigma | [T6508](https://www.sigmaaldrich.com/catalog/product/sigald/t6508?lang=de&region=DE) |  |
| Rabex\_cr1 | RNA guide |  | TCTTAACAGCTTGAAGATAA |  |
| Rabex\_cr2 | RNA guide |  | ATCTTCAAGCTGTTAAGAGA |  |
| Rabex\_cr3 | RNA guide |  | AGTGAAAAAATGTATTTAGA |  |
| Rabex\_cr4 | RNA guide |  | GACGTACCCACTGCAGGGCT |  |

Bucci C, Parton RG, Mather IH, Stunnenberg H, Simons K, Hoflack B, Zerial M (1992) The small GTPase rab5 functions as a regulatory factor in the early endocytic pathway. Cell 70: 715-28

Franke C, Repnik U, Segeletz S, Brouilly N, Kalaidzidis Y, Verbavatz JM, Zerial M (2019) Correlative single-molecule localization microscopy and electron tomography reveals endosome nanoscale domains. Traffic 20: 601-617

Villasenor R, Nonaka H, Del Conte-Zerial P, Kalaidzidis Y, Zerial M (2015) Regulation of EGFR signal transduction by analogue-to-digital conversion in endosomes. Elife 4