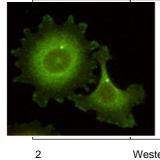


Anti-HEF1 (aa 82-398) (MOUSE) Monoclonal Antibody - 200-301-912

| Cod | de: 200-301-912 Size: | 100 µg |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description: | : Anti-HEF1 (aa 82-398) (MOUSE) Monoclonal Antibody - 200-301-912 | |
| Concentration: | 1.0 mg/mL by UV absorbance at 280 nm | |
| PhysicalState: | : Liquid (sterile filtered) | |
| Label | Unconjugated | |
| Host | Mouse | |
| Gene Name | NEDD9 | |
| Species Reactivity | human | |
| Buffer | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 | |
| Stabilizer | None | |
| Preservative | 0.01% (w/v) Sodium Azide | |
| Storage Condition | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C o Avoid cycles of freezing and thawing. Centrifuge product if not completely cl temperature. This product is stable for several weeks at 4° C as an undilute immediate use. | lear after standing at room |
| Synonyms | Cas like docking antibody, CASL antibody, Crk associated substrate related antibody, dJ761I2.1 antibody, Enhancer of filamentation 1 antibody | protein antibody, dJ49G10.2 |
| Application Note | This monoclonal antibody has been tested for use in western blotting, immur immunofluorescence. This clone recognizes HEF1 under non-denaturing co reactivity should be optimized by the end user. Expect bands approximately to isoforms of HEF1 protein by western blotting in the appropriate cell lysate recognize p130Cas. Sin1 has not been tested. IF was performed using 4% mostly detects HEF1 localized at the focal adhesion sites. | nditions. Specific conditions for 115 and 105 in size corresponding or extract. This antibody does not |
| Background | HEF1, also known as Enhancer of filamentation 1, CRK-associated substration p105 and Neural precursor cell expressed developmentally down-regulated (CASGL) gene. HEF1 functions as a docking protein that plays a central combased signaling related to cell adhesion. HEF1 may also function in transmit focal adhesions at the cell periphery and the mitotic spindle in response to a initiating cell proliferation. HEF1 may also play an important role in integrin N (BCR) mediated signaling in B- and T-cells. Integrin beta-1 stimulation leads including CRK, NCK and SHPTP2 to the tyrosine phosphorylated form. HEF heterodimerize with HLH proteins ID2, E12, E47 and also with p130cas. HE with related adhesion focal tyrosine kinase (RAFTK), adapter protein CRKL is with MICAL and TXNL4/DIM1. This protein localizes to both the cell nucleus differently localized in fibroblasts and epithelial cells. In fibroblasts is predom present in the Golgi apparatus. In epithelial cells localized predominantly in t concentration in lamellipodia but is also found in the nucleus. HEF1 is ado detected in lines. HEF1 is activated upon induction of cell growth. Cell cycle-regulated p115, p105, p65, and p55. Isoform p115 arises from p105 phosphorylation a Isoform p55 arises from p105 as a result of cleavage at a caspase | 9 is the product of the NEDD9 ordinating role for tyrosine-kinase- ting growth control signals between dhesion or growth factor signals beta-1 or B cell antigen receptor is to recruitment of various proteins 71 forms a homodimer and can EF1 also forms complexes in vivo and LYN kinase and also interacts is and the cell periphery and is inantly nuclear and in some cells is the cell periphery with particular y expressed although higher levels T-cells, B-cells and diverse cell processing produces four isoforms: |
| Purity And Specificity | This Protein A purified antibody is directed against human HEF1 protein. The culture supernatant by chromatography. This antibody has only been tested multiple isoforms is expected. Reactivity against homologues from other sou determined by partial epitope mapping. | l on human cells. Reactivity against |
| Assay Dilutions | User Optimized | |
| ELISA | 1:5,000 - 1:20,000 | |
| WESTERN BLOT | 1:500 | |
| IFMICROSCOPY | 1:100 | |
| OTHER ASSAYS | User Optimized | |
| Expiration | Expiration date is one (1) year from date of opening. | |
| Immunogen | Anti-HEF1 monoclonal antibody was produced by repeated immunizations w corresponding to amino acid residues 82-398 of human HEF1 protein. | vith a synthetic peptide |

| General Reference | member, NED | See,A.W., Wertheim,M.L. and Clagett-Dame,M. (2004) Crk-associated substrate (Cas) family DD9, is regulated in human neuroblastoma cells and in the embryonic hindbrain by all-trans retinoic yn. 231 (3), 564-575. |
|-------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | McKeown-Longo,P.J. (2002) Regulation of HEF1 expression and phosphorylation by TGF-beta 1 sion. J. Biol. Chem. 277 (42), 39599-39608. |
| | 1, a novel p13 | ojak,J., Wang,B., Mysliwiec,T., Kruh,G. and Golemis,E.A. (1996) Human enhancer of filamentation 30cas-like docking protein, associates with focal adhesion kinase and induces pseudohyphal ccharomyces cerevisiae. Mol. Cell. Biol. 16 (7), 3327-3337. |
| Related Products | | |
| | 100-4184 | Anti-NFKB p105 (RABBIT) Antibody - 100-4184 |
| | 200-301-268 | Anti-AKT pS473 (MOUSE) Monoclonal Antibody - 200-301-268 |
| | 610-4302 | Anti-MOUSE IgG (H&L) (RABBIT) Antibody Peroxidase Conjugated - 610-4302 |
| | B501-0500 | BLOTTO Immunoanalytical Grade (Non-Fat Dry Milk) - B501-0500 |
| Related Links | | |
| | UniProtKB - Q14511 | http://www.uniprot.org/uniprot/Q14511 |
| | NCBI - 5453680 | http://www.ncbi.nlm.nih.gov/protein/5453680 |
| | GenelD - 4739 | http://www.ncbi.nlm.nih.gov/gene/4739 |
| Images | | |
| | 1 | Immunofluorescence microscopy using Rockland's Monoclonal anti-HEF1 antibody (clone 14A11) shows detection of HEF1 localized at the centrosome (bright dots) and focal adhesion sites. The antibody was used at a 1:100 dilution with a 1-min exposure |

The antibody was used at a 1:100 dilutión with a 1-min exposure time. Personal Communication. Elena Pugacheva, Fox Chase Cancer Center, Philadelphia, PA.



Western blotting using Rockland's Monoclonal anti-HEF1 antibody (clone 14A11) shows detection of HEF1 present in MCF-7 cells induced to express HEF1 by tetracycline removal (right lane). See Pugacheva et al for details.

| C MCF7-tta-HEF1 Tet: + - | | |
|-----------------------------|--|--|
| 180 115- a | | |
| W 64- | | |
| 49 37 | | |
| 29- HEF1 (14A11) | | |

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.