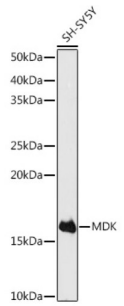
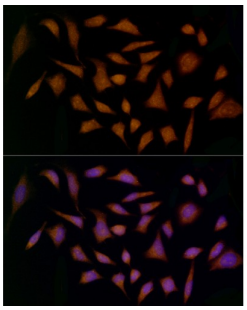
# Midkine (MDK) Antibody

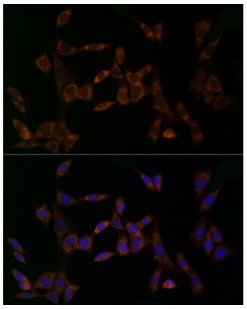
Catalogue No.:abx000636




Western blot analysis of lysates from SH-SY5Y cells, using MDK Antibody at 1/500 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1/10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Exposure time: 180s.



Immunofluorescence analysis of HeLa cells using MDK Antibody at dilution of 1/20 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1/500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using MDK Antibody at dilution of 1/20 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1/500 dilution. Blue: DAPI for nuclear staining.



MDK Antibody is a Rabbit Polyclonal antibody against MDK. Midkine, or MDK, is a heparin-binding molecule involved in the regulation of growth and differentiation during embryogenesis. MDK expression is tightly regulated during embryonic development by steroid receptors of the retinoic acid superfamily. The mature human MDK protein is 118 amino acids in length and contains five intrachain disulfide bonds. MDK is a non-glycosylated protein that shows greater than 87% identity between human and mouse. The carboxy-terminus of MDK contains the principle heparin-binding site and the molecule's neurite-promoting sequences; both the amino- and carboxy-terminal sequences are required for the molecule's neurotrophic properties. An association between overexpression of MDK and colon adenocarcinoma has been shown in families suffering from familial polyposis. In addition, MDK functions to enhance the activity of plasminogen activator (PA).

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| **Target:** | Midkine (MDK) |
| **Research Area:** | Signal Transduction, Tumor Immunity, Developmental Science |
| **Clonality:** | Polyclonal |
| **Reactivity:** | Human, Mouse, Rat |


Abbexa LTD, Cambridge, UK · Phone: +44 (0) 1223 755950 · Fax: +44 (0) 1223 755951
Abbexa LLC, Houston, TX USA · Phone: +1 832 327 7413
Abbexa BV, Leiden, NL
Website: www.abbexa.com · Email: info@abbexa.com

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| **Tested Applications:** | ELISA, WB, IF/ICC |
| **Host:** | Rabbit |
| **Recommended dilutions:** | ELISA: 1 µg/ml, WB: 1/100 - 1/500, IF/ICC: 1/50 - 1/200. Optimal dilutions/concentrations should be determined by the end user. |
| **Conjugation:** | Unconjugated |
| **Immunogen:** | Recombinant protein corresponding to MDK. The exact sequence is proprietary. |
| **Isotype:** | IgG |
| **Form:** | Liquid |
| **Purification:** | Purified by affinity chromatography. |
| **Storage:** | Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles. |
| **UniProt Primary AC:** | P21741 (UniProt, ExPASy) |
| **Gene Symbol:** | MDK |
| **GeneID:** | 4192 |
| **NCBI Accession:** | NP_001012333.1 |
| **KEGG:** | hsa:4192 |
| **String:** | 9606.ENSP00000385451 |
| **Molecular Weight:** | Calculated MW: 16 kDa<br>Observed MW: 16 kDa |
| **Buffer:** | PBS, pH 7.3, containing 0.01% thimerosal, 50% glycerol. |
| **Concentration:** | > 0.2 mg/ml |
| **Note:** | THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION. |




Abbexa LTD, Cambridge, UK · Phone: +44 (0) 1223 755950 · Fax: +44 (0) 1223 755951
Abbexa LLC, Houston, TX USA · Phone: +1 832 327 7413
Abbexa BV, Leiden, NL
Website: www.abbexa.com · Email: info@abbexa.com