

Product datasheet for CF501086

DAP Kinase 2 (DAK2) Mouse Monoclonal Antibody [Clone ID: OT1F7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OT1F7
Applications:	IF, IHC, IP, WB
Recommended Dilution:	WB 1:2000, IHC 1:50, IF 1:100, IP 2ug/500ul
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human DAPK2 (NP_055141) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	42.7 kDa
Gene Name:	death associated protein kinase 2
Database Link:	NP_055141 Entrez Gene 13143 Mouse Entrez Gene 23604 Human Q9UIK4


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Background: This gene encodes a protein that belongs to the serine/threonine protein kinase family. This protein contains a N-terminal protein kinase domain followed by a conserved calmodulin-binding domain with significant similarity to that of death-associated protein kinase 1 (DAK1), a positive regulator of programmed cell death. Overexpression of this gene was shown to induce cell apoptosis. It uses multiple polyadenylation sites. [provided by RefSeq]

Synonyms: DRP-1; DRP1

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Bladder cancer, Pathways in cancer

Product images:

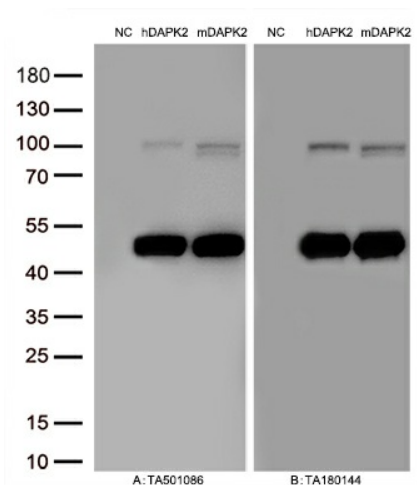
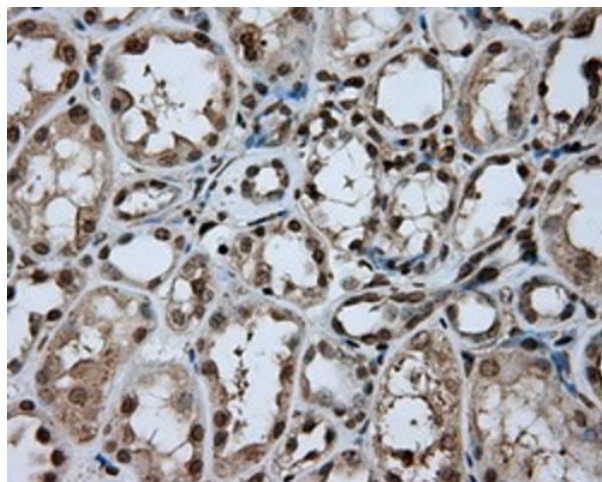
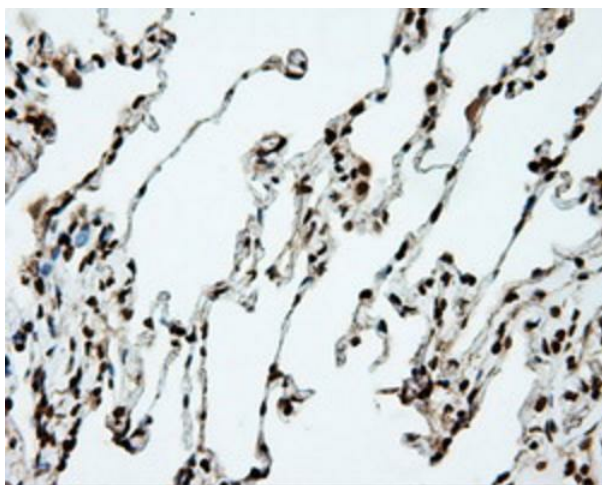


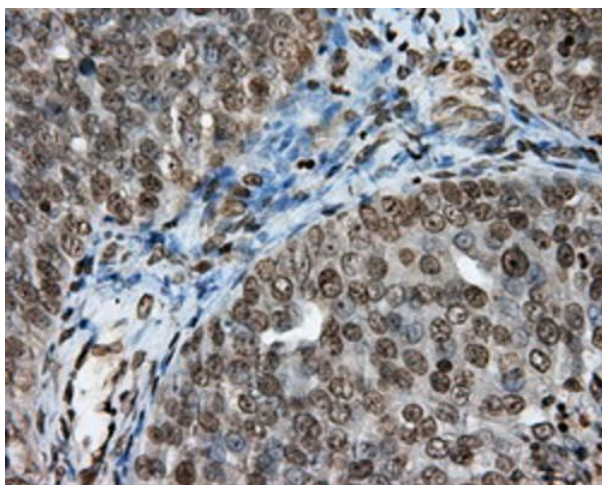
Figure A, Western blot analysis of overexpressed lysates (25ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC), human DAK2 plasmid ([RC216274], hDAK2), mouse DAK2 plasmid ([MR205712], mDAK2) using anti-DAK2 antibody [TA501086] (1:5000). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:5000).



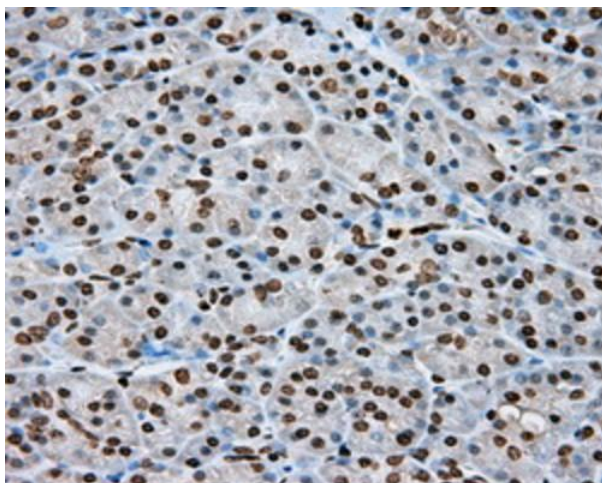
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-DAK2 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



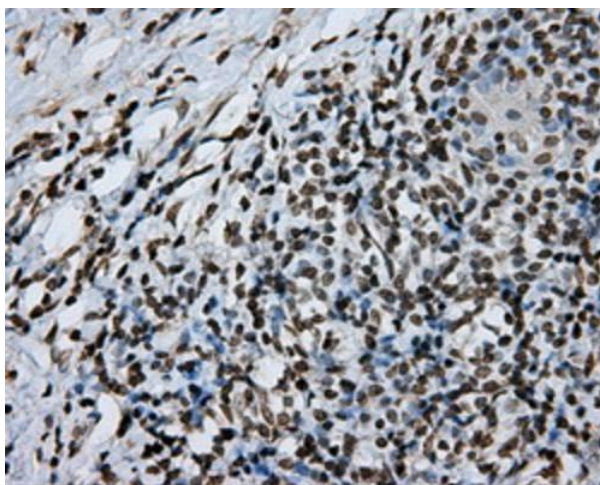
Immunohistochemical staining of paraffin-embedded Human lung tissue within the normal limits using anti-DAPK2 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



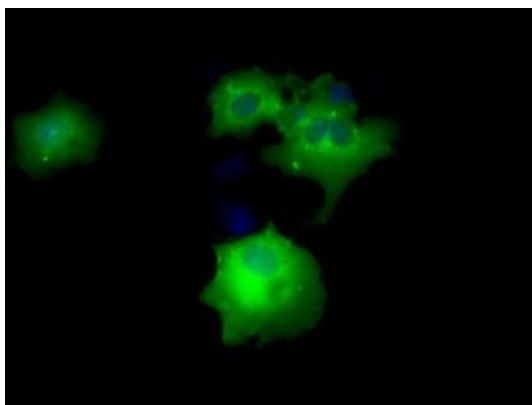
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-DAPK2 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



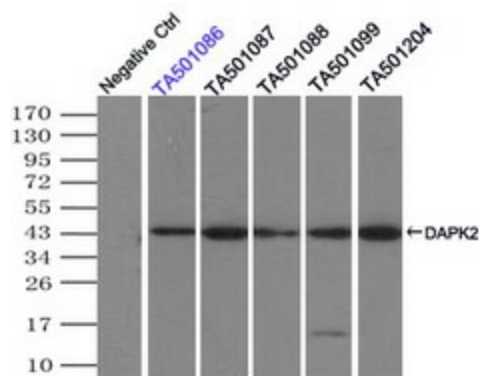
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-DAPK2 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-DAK2 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-DAK2 mouse monoclonal antibody (TA501086) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY DAK2 (RC216274).



Immunoprecipitation (IP) of DAK2 by using TrueMab monoclonal anti-DAK2 antibodies (Negative control: IP without adding anti-DAK2 antibody.). For each experiment, 500ul of DDK tagged DAK2 overexpression lysates (at 1:5 dilution with HEK293T lysate), 2ug of anti-DAK2 antibody and 20ul (0.1mg) of goat anti-mouse conjugated magnetic beads were mixed and incubated overnight. After extensive wash to remove any non-specific binding, the immunoprecipitated products were analyzed with rabbit anti-DDK polyclonal antibody.