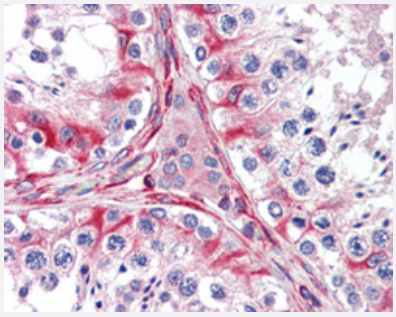
DDR1 monoclonal antibody, clone 2G4E12

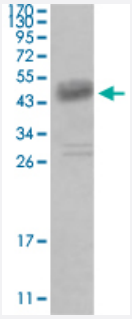
Catalog # MAB12603 Size 50 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human testis with DDR1 monoclonal antibody, clone 2G4E12 (Cat # MAB12603) at 1:200 dilution.



Western Blot (Recombinant protein)

Western blot analysis of truncated DDR1 recombinant protein with DDR1 monoclonal antibody, clone 2G4E12 (Cat # MAB12603).

Specification

Product Description	Mouse monoclonal antibody raised against human DDR1.
Immunogen	Recombinant protein corresponding to amino acids 602-681 of human DDR1.
Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgG1

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Recommend Usage	ELISA (1:10000) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200-1:300) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human testis with DDR1 monoclonal antibody, clone 2G4E12 (Cat # MAB12603) at 1:200 dilution.

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Recombinant protein)

  Western blot analysis of truncated DDR1 recombinant protein with DDR1 monoclonal antibody, clone 2G4E12 (Cat # MAB12603).

Gene Info — DDR1

Entrez GeneID	780
Gene Name	DDR1
Gene Alias	CAK, CD167, DDR, EDDR1, MCK10, NEP, NTRK4, PTK3, PTK3A, RTK6, TRKE
Gene Description	discoidin domain receptor tyrosine kinase 1
Omim ID	600408
Gene Ontology	Hyperlink

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Gene Summary	Receptor tyrosine kinases (RTKs) play a key role in the communication of cells with their microenvironment. These molecules are involved in the regulation of cell growth, differentiation and metabolism. The protein encoded by this gene is a RTK that is widely expressed in normal and transformed epithelial cells and is activated by various types of collagen. This protein belongs to a subfamily of tyrosine kinase receptors with a homology region to the Dictyostelium discoideum protein discoidin I in their extracellular domain. Its autophosphorylation is achieved by all collagens so far tested (type I to type VI). In situ studies and Northern-blot analysis showed that expression of this encoded protein is restricted to epithelial cells, particularly in the kidney, lung, gastrointestinal tract, and brain. In addition, this protein is significantly over-expressed in several human tumors from breast, ovarian, esophageal, and pediatric brain. This gene is located on chromosome 6p21.3 in proximity to several HLA class I genes. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq
Other Designations	OTTHUMP00000029343|OTTHUMP00000029344|OTTHUMP00000029345|OTTHUMP00000029346|OTTHUMP00000029347|PTK3A protein tyrosine kinase 3A|cell adhesion kinase|discoidin domain receptor DDR1d|discoidin domain receptor family, member 1|discoidin receptor tyrosine kin

Disease

- Abortion
- Arthritis
- Disease Progression
- Disease Susceptibility
- Genetic Predisposition to Disease
- Glomerulonephritis
- Leukemia
- Lupus Erythematosus
- Schizophrenia
- Vitiligo

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