

**GATA-6 (A549) Antibody**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	55	Rabbit	#Q92908	2627

**Product Usage Information****Application**

Western Blotting

**Dilution**

1:1000

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

GATA-6 (A549) Antibody detects endogenous levels of total GATA-6 protein.

**Source / Purification**

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acid sequence surrounding Ala549 of human GATA-6 protein, isoform 1. Antibodies are purified by protein A and peptide affinity chromatography.

**Background**

GATA proteins comprise a group of transcription factors that are related by the presence of conserved zinc finger DNA-binding domains, which bind directly to the nucleotide sequence core element GATA (1-3). There are six vertebrate GATA proteins, designated GATA-1 to GATA-6 (3).

GATA-6 plays a critical role in endoderm development (4). It is essential for development of the heart, gut and other organs (5,6). Knock out of GATA-6 is embryonic lethal due to defects in formation of the heart tube and a failure to develop extraembryonic endoderm (4). Loss of expression, or loss of nuclear localization of GATA-6 is apparent in a large number of ovarian tumors (7).

**Background References**

1. Ko, L.J. and Engel, J.D. (1993) *Mol Cell Biol* 13, 4011-22.
2. Merika, M. and Orkin, S.H. (1993) *Mol Cell Biol* 13, 3999-4010.
3. Lowry, J.A. and Atchley, W.R. (2000) *J Mol Evol* 50, 103-15.
4. Cai, K.Q. et al. (2008) *Dev Dyn* 237, 2820-9.
5. Charron, F. and Nemer, M. (1999) *Semin Cell Dev Biol* 10, 85-91.
6. Haveri, H. et al. (2008) *BMC Gastroenterol* 8, 9.
7. Caslini, C. et al. (2006) *Oncogene* 25, 5446-61.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting

**Cross-Reactivity Key**

**H:** Human

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