#5851 Store at -20°C

GATA-6 (D61E4) XP® Rabbit mAb

☑ 100 µl
(10 western blots)

Cell Signaling TECHNOLOGY®

Orders ■ 877-616-CELL (2355)
orders@cellsignal.com
Support ■ 877-678-TECH (8324)
info@cellsignal.com
Web ■ www.cellsignal.com

rev. 01/12/12

Entrez-Gene ID #2627
Swiss-Prot Acc. #Q92908

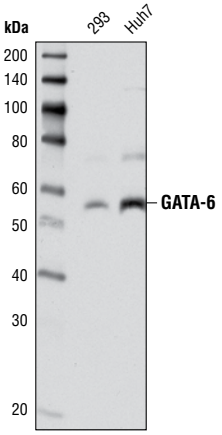
Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IF-IC	H, (M, R, Dg, Pg)		Rabbit IgG**
Endogenous			

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).

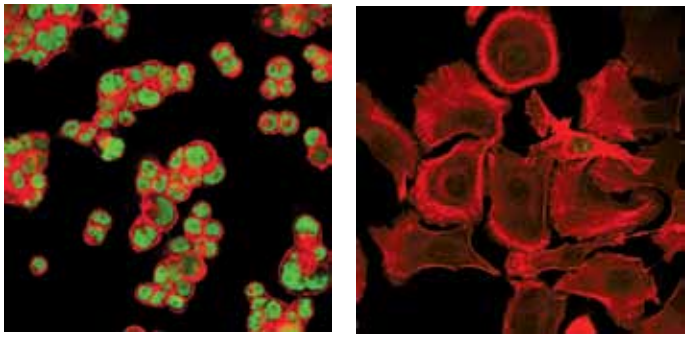
GATA-6 plays a critical role in endoderm development (4). It is essential for development of the heart, gut, and other organs (5,6). Knock out of GATA-6 is embryonic lethal due to defects in formation of the heart tube and a failure to develop extraembryonic endoderm (4). Loss of expression, or loss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

Specificity/Sensitivity: GATA-6 (D61E4) XP® Rabbit mAb recognizes endogenous levels of total GATA-6 protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human GATA-6 protein.



Western blot analysis of extracts from 293 and Huh7 cells using GATA-6 (D61E4) XP® Rabbit mAb.



Confocal immunofluorescent analysis of KM12 (left) and SK-OV-3 cells (right) using GATA-6 (D61E4) XP® Rabbit mAb (green). Actin filaments were labeled with DY-554 phalloidin (red).

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.*

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunofluorescence (IF-IC)	1:1600

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

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.

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

Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide
Species Cross-Reactivity Key: **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.