

# AIG1 (C-16): sc-241794

## BACKGROUND

AIG1 (androgen-induced 1) is a 245 amino acid multi-pass membrane protein belonging to the AIG1 family. Encoded by a gene that maps to human chromosome 6q24.2, AIG1 exists as five alternatively spliced isoforms. Highly expressed in heart, ovary, testis, liver and kidney, AIG1 is also expressed at lower levels in spleen, prostate, brain, skeletal muscle, pancreas, small intestine, colon and hair follicle. AIG1 exhibits higher expression in male hair follicles than in female follicles, and may play a role in androgen-regulated growth of hair follicles. AIG1 shares 37% homology with FAR-17a, an androgen inducible gene of similar length. Both AIG1 and FAR-17a contain two polyadenylation signals, but exhibit two different lengths of mRNA transcripts.

## REFERENCES

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- Seo, J., et al. 2001. Cloning of androgen-inducible gene 1 (AIG1) from human dermal papilla cells. *Mol. Cells* 11: 35-40.
- Rutberg, S.E., et al. 2006. Differences in expression of specific biomarkers distinguish human beard from scalp dermal papilla cells. *J. Invest. Dermatol.* 126: 2583-2595.
- Elsamman, E., et al. 2006. Differences in gene expression between non-invasive and invasive transitional cell carcinoma of the human bladder using complementary deoxyribonucleic acid microarray: preliminary results. *Urol. Oncol.* 24: 109-115.
- Antoshechkin, A., et al. 2007. Analysis of effects of the herbal preparation circulat on gene expression levels in cultured human fibroblasts. *Phytother. Res.* 21: 777-789.
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## CHROMOSOMAL LOCATION

Genetic locus: AIG1 (human) mapping to 6q24.2; Aig1 (mouse) mapping to 10 A2.

## SOURCE

AIG1 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of AIG1 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-241794 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

AIG1 (C-16) is recommended for detection of AIG1 of human and, to a lesser extent, mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

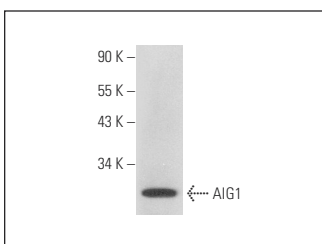
Suitable for use as control antibody for AIG1 siRNA (h): sc-95273, AIG1 siRNA (m): sc-140966, AIG1 shRNA Plasmid (h): sc-95273-SH, AIG1 shRNA Plasmid (m): sc-140966-SH, AIG1 shRNA (h) Lentiviral Particles: sc-95273-V and AIG1 shRNA (m) Lentiviral Particles: sc-140966-V.

Molecular Weight of AIG1: 27 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



AIG1 (C-16): sc-241794. Western blot analysis of AIG1 expression in mouse liver tissue extract.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.