

# IGROV-1 | 305556

## General Information

<b>Description</b>	IGROV-1 is a human ovarian cancer cell line, established from a patient with a serous papillary cystadenocarcinoma of the ovary. It is characterized by its high tumorigenicity and ability to form xenografts in nude mice. IGROV-1 cells are highly sensitive to cisplatin and paclitaxel. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 100 U/ml penicillin, 100 U/ml streptomycin, and 100 U/ml nystatin. IGROV-1 cells are highly sensitive to cisplatin and paclitaxel. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 100 U/ml penicillin, 100 U/ml streptomycin, and 100 U/ml nystatin.
<b>Organism</b>	Human
<b>Tissue</b>	Ovary
<b>Disease</b>	Ovarian cancer
<b>Synonyms</b>	Igrov-1, IGROV 1, IGR-OV1, IGROV1, Igrov1, IGR.OV1, IGROV, OV1/P, OV1/p, OV1-P

## Characteristics

<b>Age</b>	47 years
<b>Gender</b>	Female
<b>Ethnicity</b>	White
<b>Morphology</b>	Epithelial cells
<b>Growth properties</b>	Adherent, clonal

## References and Safety

<b>Citation</b>	IGROV-1 (ATCC CCL-1304) Cytion 305556
<b>Biosafety level</b>	1
<b>NCBI_TaxID</b>	9606
<b>CellosaurusAccession</b>	CVCL_1304

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IGROV-1 - IGROV-1

**Tumorigenic** Yes, tumorigenic in nude mice

**Mutational profile** BRCA1, p.Lys654Serfs\*47 (c.1961delA), BRCA2, p.Lys1108Argfs\*11 (c.3323delA) (p.Gln1107fs) (c.955\_958delACTT) (p.VL317fs) (V317fs\*3), PIK3CA, p.Arg38Cys (c.112C>T), PIK3CA, p.Ter1069TrpinsLysAspAsn (c.3207A>G), RB1, p.Val654Cysfs\*4 (c.1959delA), SMAD4, p.Leu495Pro (c.1484T>C), TP53, p.Ser90Leufs\*59 (c.267dupC) p.Tyr126Cys (c.377A>G)

IGROV-1

**Culture Medium** DMEM, w: 4.5 g/L D-glucose, w: 4 mM L-glutamine, w: 3.7 g/L NaHCO3, w: 1.0 mM beta-mercaptoethanol (Cytion 820300a)

**Supplements** 10% FBS

**Dissociation Reagent** Trypsin

**Subculturing** 1:3 to 1:10 in DMEM + 10% FBS, 1:3 to 1:10 in DMEM + 10% FBS, 1:3 to 1:10 in DMEM + 10% FBS

**Freeze medium** DMEM + 10% FBS + 10% DMSO

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## Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Do not allow the vial to touch the bottom of the bath. Transfer the cells to a pre-warmed tube.
2. Add 10 ml of pre-warmed medium to the tube. Centrifuge at 150 × g for 5 minutes at 4°C. Remove the supernatant and resuspend the cells in 1 ml of pre-warmed medium.
3. Seed the cells into a pre-warmed 37°C incubator.
4. Allow the cells to attach to the surface of the flask. Once attached, replace the medium with 10 ml of fresh pre-warmed medium.
5. Incubate the cells in a 37°C incubator with 5% CO<sub>2</sub> for 15-24 hours. The cells should reach 70-80% confluency.
6. Harvest the cells by trypsinization. Add 1 ml of trypsin to the flask and incubate for 3-5 minutes. Add 10 ml of medium to stop the reaction.
7. Harvest the cells by centrifugation at 10 × g for 5 minutes. Resuspend the cells in 1 ml of medium.
8. Seed the cells into a pre-warmed flask. Incubate the cells in a 37°C incubator with 5% CO<sub>2</sub>.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>, humidified air

**Flask Coating** Cell culture medium, 10% FBS

**Freezing Procedure** Harvest cells by trypsinization. Resuspend in 1 ml of medium. Add 10% FBS. Freeze at -78°C.

**Shipping Conditions** Store at -78°C. Ship on dry ice.

**Storage Conditions** Store at -150°C for 196 days. Thaw at 37°C.

## IGROV-1 / IGROV-1 / HLA

**Sterility** The cells are free of mycoplasmas and PCR detectable. The cells are free of mycoplasmas and PCR detectable.