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# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


**SZABO-SCANDIC HandelsgmbH**

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

6042 Cornerstone Court W, Ste B
San Diego, CA 92121
**Tel:** 1.858.829.3082
**Fax:** 1.858.481.8694
**Email:** info@bpsbioscience.com

# Data Sheet

## OX40 - HEK293 Recombinant Cell Line

## Cat #: 60682

**Product Description**
Recombinant HEK293 stably expressing human OX40 (TNF receptor superfamily member 4, TNFRSF4, ACT35; CD134; IMD16; TXGP1L, GenBank Accession #NM_003327).

**Background**
OX40 (CD134) is a co-stimulatory receptor expressed on the surface of CD4+ and CD8+ T cells 24 to 48 hours after activation. Binding of OX40 to its ligand, OX40L (CD252), present on dendritic cells, potentiates T cell survival and increases cytokine production. OX40 has been shown to activate NF-κB-mediated memory cell generation through its interaction with adaptor proteins TRAF2 and TRAF5. OX40 has a critical role in the maintenance of an immune response beyond the first few days and onwards to a memory response.

**Application**
- OX40 binding molecule (such as anti-OX40 antibody) screening and profiling in a cellular context

**Format**
Each vial contains ~2 X $10^6$ cells in 1 ml of 10% DMSO

**Storage**
Immediately upon receipt, store in liquid nitrogen.

**Mycoplasma Testing**
The cell line has been screened using the metabolite-based Mycoplasma Detection Kit (Biotool #B3903) to confirm the absence of Mycoplasma species.

**General Culture Conditions**

**Thaw Medium 1 (BPS Cat. #60187):** MEM medium (Hyclone #SH30024.01) + 10% FBS (Life Technologies #26140-079) + 1% non-essential amino acids (Hyclone #SH30238.01) + 1 mM Na pyruvate (Hyclone #SH30239.01) + 1% Penicillin/Streptomycin (Hyclone SV30010.01).

**Growth Medium 1F (BPS Cat. #79540):** Thaw Medium 1 (BPS Cat. #60187) plus 100 μg/ml of Hygromycin B (Life Technologies #10687-010).

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Cells should be grown at 37°C with 5% $CO_2$ using Growth Medium 1F to ensure recombinant expression. OX40 HEK293 cells should display a typical cell division time of about 24 hours.

**To thaw the cells**, it is recommended to quickly thaw the frozen cells from liquid nitrogen in a 37°C water-bath, transfer to a tube containing 10 ml of Thaw Medium 1 **(no Hygromycin B)**, spin down cells at 1000 rpm and resuspend cells in 5 ml of pre-warmed Thaw Medium 1 **(no Hygromycin)**. Transfer resuspended cells to T25 flask and culture at 37°C in a 5% $CO_2$ incubator overnight. The next day, replace the medium with fresh warm Thaw Medium 1 **(no Hygromycin B)**, and continue growing culture in a $CO_2$ incubator at 37°C until the cells are ready to be split. Cells should be split before they reach complete confluence. At first passage switch to Growth Medium 1F **(contains Hygromycin B)**.

**To passage the cells**, rinse cells with phosphate buffered saline (PBS) and detach cells from culture vessel with 0.05% Trypsin/EDTA. After detachment, add Growth Medium 1F (**contains Hygromycin B)** and transfer to a tube, spin down cells, resuspend cells in Growth Medium 1F (**contains Hygromycin B)** and seed appropriate aliquots of cell suspension into new culture vessels. Sub cultivation ratio: 1:5 to 1:10 weekly or twice a week.

*Note: Just after thawing and at low density, the cells may grow at a slower rate. It is recommended to split the cells with ~ 1:4 ratio at the beginning of culturing. After several passages, the cell growth rate increases and the cells can be split with a higher ratio.*

**To freeze down the cells**, rinse cells with phosphate buffered saline (PBS), and detach cells from culture vessel with 0.05% Trypsin/EDTA. After detachment, add Thaw Medium 1 (**no Hygromycin B)** and count the cells, then transfer to a tube, spin down cells, and resuspend in 4°C Freezing Medium (10% DMSO + 90% FBS) at ~$2x10^6$ cells/ml. Dispense 1 ml of cell aliquots into cryogenic vials. Place vials in an insulated container for slow cooling and store at -80°C overnight. Transfer to liquid nitrogen the next day for storage.
It is recommended to expand the cells and freeze down more than 10 vials of cells for future use at early passage.

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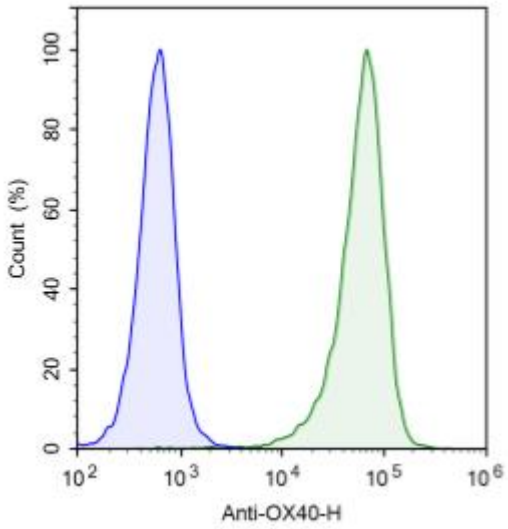
**Validation**
Cell surface expression of human OX40 in OX40-HEK293 cells was confirmed by flow cytometry.

**Figure 1. Flow cytometry analysis of cell surface expression of OX40 in OX40-HEK293 cells.**
OX40-HEK293 cells (green) or control HEK293 cells (blue) were stained with PE-labeled Anti-OX40 Antibody (BPS Bioscience #72064) and analyzed by FACS. Y-axis is the % cell number. X-axis is the intensity of PE.




| | Samples | Subset | Cell Count |
|---|---|---|---|
| | OX40-HEK293 Cell | Live Singlet | 14,041 |
| | Control HEK293 Cell | Live Singlet | 14,805 |

**Sequence**

OX40 sequence (accession number NM_003327)

MCVGARRLGRGPCAALLLLGLGLSTVTGLHCVGDTYPSNDRCCHECRPGNGMVSRCSRS
QNTVCRPCGPGFYNDVVSSKPCKPCTWCNLRSGSERKQLCTATQDTVCRCRAGTQPLDS
YKPGVDCAPCPPGHFSPGDNQACKPWTNCTLAGKHTLQPASNSSDAICEDRDPPATQPQ
ETQGPPARPITVQPTEAWPRTSQGPSTRPVEVPGGRAVAAILGLGLVLGLLGPLAILLA
LYLLRRDQRLPPDAHKPPGGGSFRTPIQEEQADAHSTLAKI

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## Related Products

| Product | Cat. # | Size |
|---|---|---|
| OX40 / NF-κB Reporter – HEK293 Recombinant Cell Line | 60482 | 2 vials |
| NF-kB reporter (Luc) - Jurkat Cell line | 60651 | 2 vials |
| NF-kB Reporter Kit | 60614 | 500 reactions |
| Human OX40L (CD252), His tag | 71185 | 100 µg |
| Human OX40 (CD134), Fc fusion | 71175 | 100 µg |
| Human OX40 (CD134), His tag, Biotin-labeled | 71310 | 50 µg |
| Anti-OX40 Antibody, PE-labeled | 72064-2 | 100 µg |
| Anti-OX40 Antagonist Antibody | 72063-2 | 100 µg |
| Thaw Medium 1 | 60187 | 100 ml |
| OX40 Screening & Profiling | | |

## Notes

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