

## Product datasheet for **TA386417**

### Cytokeratin 7 (KRT7) Rabbit Monoclonal Antibody [Clone ID: OV-TL 12/30]

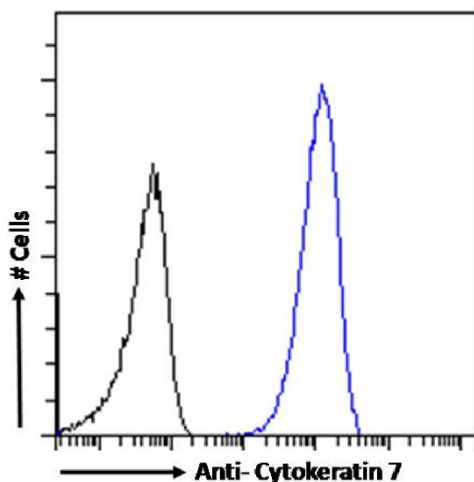
#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OV-TL 12/30
Applications:	FC, IF, IHC, WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG, kappa
Clonality:	Monoclonal
Immunogen:	This antibody was originally raised by immunizing BALB/c mice with ovarian carcinoma cell line OTN11.
Specificity:	This antibody recognizes cytokeratin-7. Cytokeratins are a subfamily of intermediate filament proteins but this antibody does not recognize other intermediate filament proteins. The antibody reacts with proteins that are found in most ductal, glandular, transitional, and biliary duct epithelial cells.  Cytokeratin subtype expression patterns are used to an increasing extent in the distinction of different types of epithelial malignancies. The cytokeratin antibodies are not only of assistance in the differential diagnosis of tumors using immunohistochemistry on tissue sections, but are also a useful tool in cytopathology and flow cytometry. Cytokeratin 7 (CK7) labeling can help distinguish between lung, breast carcinomas, and urothelial carcinomas that typically stain positive, and colon and prostate carcinomas that typically lack CK7 expression (Jerome et al., 2004; Logani et al., 2003; Murray et al., 2004; Roy et al., 2011). CK7 is a common marker of primary lung adenocarcinomas (almost all cases) with a lower specificity since it is also observed in other primary lung carcinomas and non-pulmonary carcinomas (Jerome et al., 2004). Anti-cytokeratin 7 has also been useful in the differential diagnosis of ovarian neoplasms (McCluggage et al., 2005). Furthermore, this antibody is a marker for distinguishing between the conjunctival and corneal surface epithelia which may be used in the diagnosis of limbal stem cell deficiency (LSCD) (Jirsova et al., 2011; pmid: 21693612). Finally, OV-TL 12/30 has proven very effective and popular in immunohistochemistry; for instance, one group used it to label cytokeratin-7 in human term placental samples (König et al., 2014; pmid: 24326460).
Formulation:	PBS with 0.02% Proclin 300.

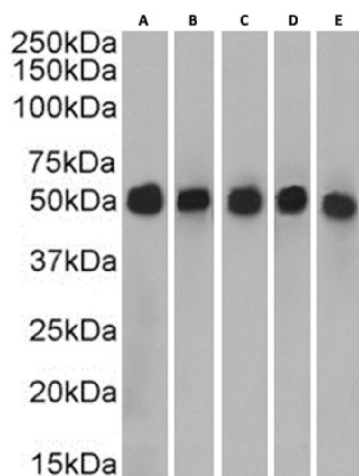

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<b>Concentration:</b>	lot specific
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
<b>Stability:</b>	3 years from dispatch.
<b>Gene Name:</b>	keratin 7
<b>Database Link:</b>	<a href="#">Entrez Gene 3855 Human P08729</a>
<b>Synonyms:</b>	CK-7; CK7; Cytokeratin-7; K2C7; K7; Keratin-7; MGC3625; MGC129731; sarcolectin; SCL
<b>Note:</b>	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

### Product images:



Flow cytometry using the anti-Cytokeratin 7 antibody OV-TL 12/30 (TA386417). HeLa cells were fixed using 2% PFA and stained with anti-unknown specificity antibody ([TA385792]; isotype control, black line) or the rabbit IgG1 version of OV-TL 12/30 (TA386417, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor® 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



Western Blot using anti- Cytokeratin 7 antibody OV-TL 12/30 (TA386417) HeLa(A) (0.00001 µg/ml), HepG2(B) (0.0003ug/ml) and A549(C) (0.00001 µg/ml) cell lysate and human thyroid(D) (0.0003ug/ml) and human placenta(E) (0.00001 µg/ml) tissue lysate (35µg protein in RIPA buffer) was resolved on a SDS PAGE gel and blots were probed with the chimeric rabbit version of OV-TL 12/30 (TA386417) before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.