



**Catalog Number** GTX16669 **Package:** 500 µl

**Reference** (2)

**Product Name** CD3 antibody [SP7]

**Full Name** CD3d molecule, delta (CD3-TCR complex)

**Synonyms** T3E, 186740, P09693, T3D, 916, CD3-GAMMA, 917, CD3GAMMA, TCRE, P20963, 186830, 186780, P04234, CD3ZETA, CD3H, CD3Q, CD3E, CD3, CD3-DELTA, TCRZ, 919, CD3Z, CD3G, 915, CD3-ZETA, 186790, T3G, CD3D, P07766, CD3DELTA, CD3 ZETA, CD3 GAMMA, CD3 DELTA

**Product Description** Rabbit monoclonal [SP7] to CD3

**Specificity** This antibody is suitable for staining normal and neoplastic T cells in formalin-fixed, paraffin-embedded tissues.

**Background** The protein encoded by this gene is part of the T-cell receptor/CD3 complex (TCR/CD3 complex) and is involved in T-cell development and signal transduction. The encoded membrane protein represents the delta subunit of the CD3 complex, and along with four other CD3 subunits, binds either TCR alpha/beta or TCR gamma/delta to form the TCR/CD3 complex on the surface of T-cells. Defects in this gene are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive (SCIDBNK). Two transcript variants encoding different isoforms have been found for this gene. Other variants may also exist, but the full-length natures of their transcripts has yet to be defined. [provided by RefSeq]

**Host** Rabbit

**Clonality** Monoclonal

**Clone Name** SP7

**Isotype** IgG

**Target** CD3

**Immunogen** Synthetic peptide: KAKAKPVTRGAGA, corresponding to amino acids 156-168 of Human CD3 epsilon chain.

**Antigen Species** Human

**Species Reactivity** Human, Mouse, Dog, Monkey, Pig, Rat, Baboon, Cat, Horse, Rabbit, Sheep, Woodchuck

**Applications** FACS, IHC, IHC-P, WB

**Application Note** For IHC-P: Use at a dilution of 1:100. Antigen retrieval is suggested by boiling tissue sections in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at room temperature for 20 min.

**Positive Controls** Tonsil

**Cellular Localization** Type I membrane protein.

**Form Supplied** Liquid

**Purification** Unpurified

**Purification Note** From hybridoma culture supernatant

**Concentration** Tissue Culture Supernatant

**Storage Buffer** TCS containing 0.1% sodium azide

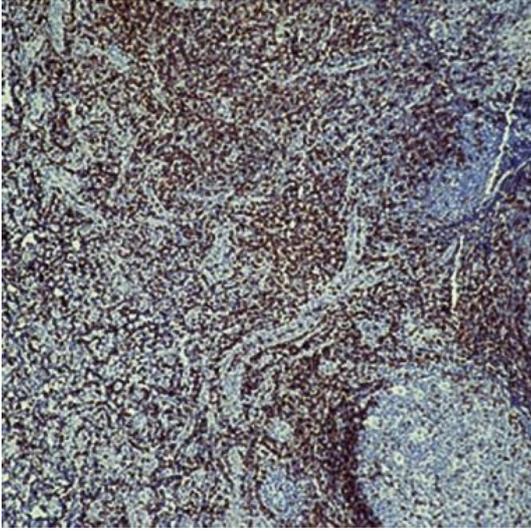
**Storage Instruction** Keep as concentrated solution, aliquot and store at 4°C. Do not freeze.

**Notes** For *In vitro* laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

**ResearchArea** [Immunology](#) > [CD marker](#)  
[Immunology](#) > [Hematopoietic stem cell](#)  
[Stem Cell Development](#) > [Stem cells](#) > [Hematopoietic stem cells](#)

## Application Reference

1. Lin YL (2016) *Proc Natl Acad Sci U S A*
2. Swindell WR (2013) *Sci Rep* 1215



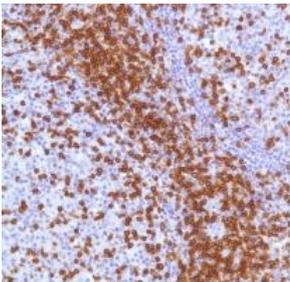
### GTX16669 IHC-P Image

Formalin fixed paraffin embedded human tonsil stained with CD3 antibody (GTX16669)



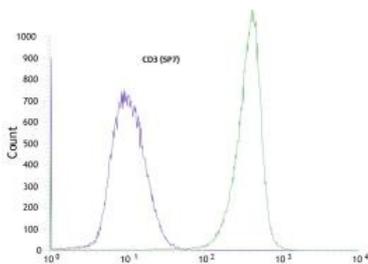
### GTX16669 WB Image

Western Blot analysis of Jurkat cell lysate with CD3 antibody



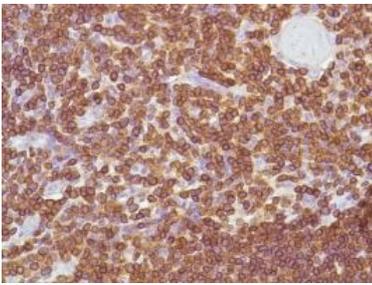
### GTX16669 IHC Image

Human Tonsil stained with anti-CD3 antibody



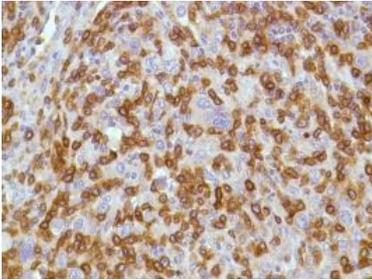
### GTX16669 FACS Image

Flow cytometric analysis of rabbit anti-CD3 (SP7) antibody in Jurkat (green) compare to negative control of rabbit IgG (blue)



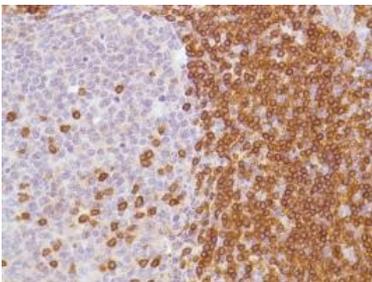
**GTX16669 IHC Image**

Human Thymus stained with anti-CD3 antibody



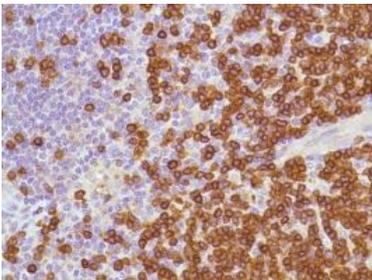
**GTX16669 IHC Image**

Human HK Lymphoma stained with anti-CD3 antibody



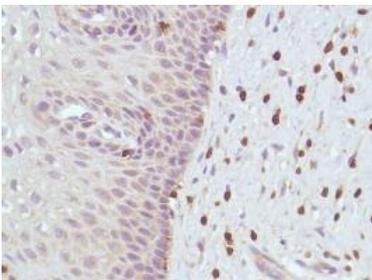
**GTX16669 IHC Image**

Human Tonsil stained with anti-CD3 antibody



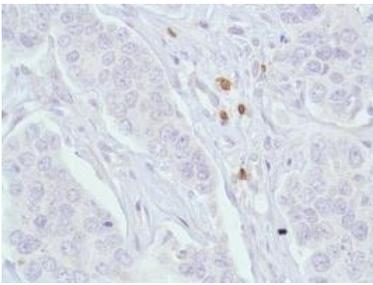
**GTX16669 IHC Image**

Human Reactive Lymph Node stained with anti-CD3 antibody



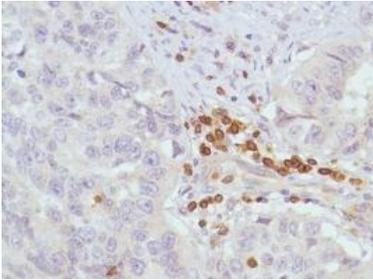
**GTX16669 IHC Image**

Human Cervix stained with anti-CD3 antibody



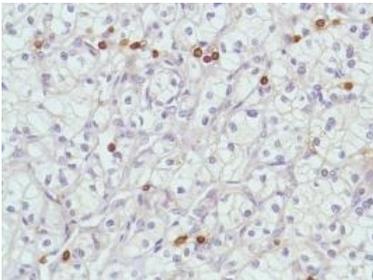
**GTX16669 IHC Image**

Human Breast Ductal Carcinoma stained with anti-CD3 antibody



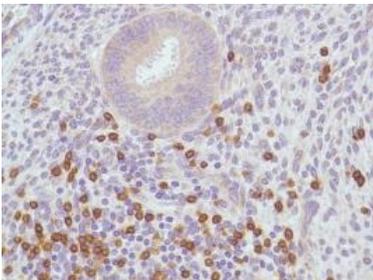
**GTX16669 IHC Image**

Human Lung Squamous Cell Carcinoma stained with anti-CD3 antibody



**GTX16669 IHC Image**

Human Renal Cell Carcinoma stained with anti-CD3 antibody



**GTX16669 IHC Image**

Human Uterus stained with anti-CD3 antibody