

## Anti-CD81 [1D6] Bulk Size Ab00697-10.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Human IgG1, Fc Silent™, Kappa

**Clone Number:** 1D6

**Alternative Name(s) of Target:** Tetraspanin-28; TAPA-1; Target of the Antiproliferative Antibody 1; Tspan-28

**UniProt Accession Number of Target Protein:** P60033

**Published Application(s):** functional, ICC/IF, IHC-P, IP, WB, ELISA, FC

**Published Species Reactivity:** Human, Chimpanzee, Goat, Sheep

**Immunogen:** This antibody was produced by immunizing mice with 5A6-aggregated OCI-LY8 B cells.

**Specificity:** This antibody is specific for human CD81, which is expressed on most tissues with the exception of red blood cells and platelets.

**Application Notes:** This antibody is a strong inducer of homotypic adhesion in hematolymphoid cells (Levy, 1998). This antibody also has an anti-proliferative effect, and is able to induce growth inhibition of B cell lines. Triggering of CD81 by this antibody induces a significant upregulation of the constitutive release of TNF- $\alpha$  by JY cells, an Epstein-Barr virus-positive B lymphoblastoid cell line (Altomonte, 1995).

**Antibody First Published in:** Levy et al. CD81 (TAPA-1): a molecule involved in signal transduction and cell adhesion in the immune system Annual review of immunology, 1998, Vol.16, pp.89-109 [Peer Reviewed Journal] [PMID:9597125](#)

**Note on publication:** Describes the original production of this antibody, and its use in characterising the CD81 antigen.

## Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without

added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.