

# TERRACE BIOTECH, LLC

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## Anti HT2-280: TB-27AHT2-280 1 ml

**Specificity:** Human Lung Alveolar Type 2 Cells; the antibody binds to a partially characterized 280 kDa apical membrane antigen specific to human Type 2 Cells. This antibody does not cross react with lung tissue from ape, monkey, dog, sheep, rat, or mouse.

**Validated for:** IHC, Western Blots, FACS, magnetic cell sorting, dot blots, and TEM

**Production Host:** Mouse hybridoma cells

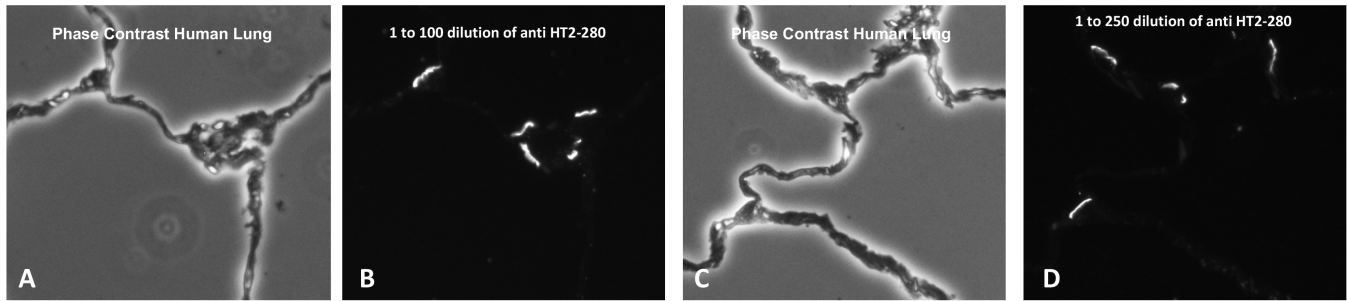
**Antibody Isotype:** Mouse IgM, concentrated hybridoma supernatant 0.2µm filtered.

**Storage and Use:** Upon receiving the antibody, divide it into separate aliquots and store them at -20°C (or colder). This antibody is stable for 1 year when stored at -20°C (or colder). Do not store the antibody in a frost-free freezer. To use the antibody, thaw it rapidly at 30°C, and place it on ice until you're ready to use it. A 1:150 dilution in a suitable buffer provides a 'robust signal' after two freeze thaw cycles of the stock solution when used for IHC. This product is non-hazardous.

**Research Use:** This antibody supernatant is intended for research use only; it is not intended for use in diagnostic procedures.

### **Product Literature:**

1. Gonzalez RF, Lennell Allen, Linda Gonzales, Philip L. Ballard and Leland G. Dobbs. (2010) HTII-280, a Biomarker Specific to the Apical Plasma Membrane of Human Lung Alveolar Type II Cells. *J. Histochem. Cytochem.* 58, (10) 891-901
2. Chapin, C.J., Bailey N., Gonzales, L. W., Lee J.W., Robert Gonzalez and Ballard, P.L. (2011) Distribution and Surfactant Association of Carcinoembryonic Cell Adhesion Molecule 6 in Human Lung. *Am J Physiol Lung Cell Mol Physiol*, Accepted October 27, 2011
3. Christina E. Barkauskas, Michael J. Cronce, Craig R. Rackley, Emily J. Bowie, Douglas R. Keene, Barry R. Stripp, Scott H. Randell, Paul W. Noble, and Brigid L.M. Hogan (2013) Type 2 alveolar cells are stem cells in adult lung *J Clin Invest.* 2013;123(7):3025-3036
4. Linda W Gonzales, Robert Gonzalez, Anne Marie Barrette, Ping Wang, Leland Dobbs, and Philip L Ballard (2015) Expression of Carcinoembryonic Cell Adhesion Molecule 6 and Alveolar Epithelial Cell Markers in Lungs of Human Infants with Chronic Lung Disease, September 2015 · *Journal of Histochemistry and Cytochemistry* September 2015; 63(12).



**IHC testing of anti HT2-280:**

Anti HT2-280 was diluted 1:100 (B) or 1:250 (D) and incubated on a 2 $\mu$ m thick section of human lung for 30 min. at 27°C. Bound primary antibody was visualized using an affinity purified isotype specific secondary antibody labeled with Alexa488.

**Batch Concentration: 8.43  $\mu$ gs of mouse IgM/ ml supernatant.**

Anti HT2-280 mouse IgM in the hybridoma supernatant was quantitated using a Mouse IgM Elisa Kit (#6380, Alpha Diagnostics). Supernatant serial dilutions were tested in duplicate, negative controls were negative and positive controls positive.

Batch expiration: 10 - 18 -23 lot: WG27

**Note: Antibody is shipped filter sterilized in non-hazardous RPMI media containing saline, 5mM sodium phosphate, 24mM sodium bicarbonate, and 25mM HEPES.**