

TERRACE BIOTECH, LLC

www.TerraceBiotech.com

Anti HT1-56: TB-29 AHT1-56 1 ml

Specificity: Human Lung Alveolar Type 1 Cells; the antibody binds to a partially characterized 56 kDa apical membrane protein specific to human Type 1 Cells. This antibody does not cross react with lung tissue from ape, monkey, dog, sheep, rat, or mouse.

Validated for: IHC on paraformaldehyde fixed human lung frozen thin sections, Western Blots (non-reducing conditions), FACS, magnetic cell sorting, dot blots, and TEM.

Production Host: Mouse hybridoma cells.

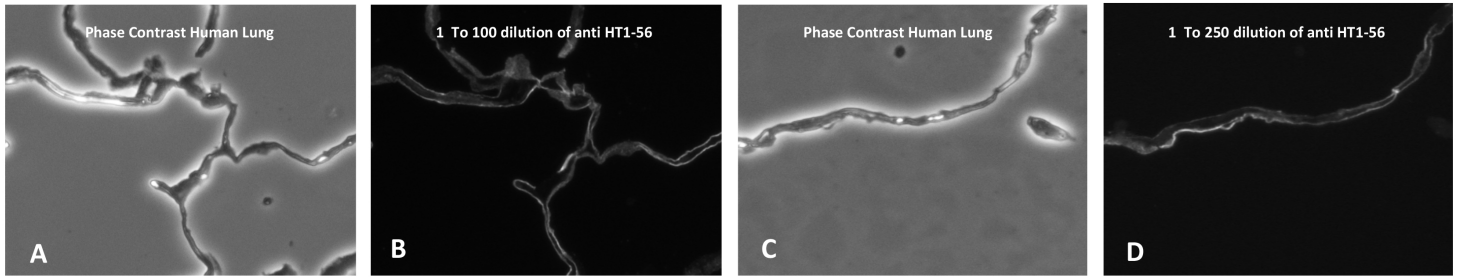
Antibody Isotype: Mouse IgG1, concentrated hybridoma supernatant 0.2µm filtered.

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 are 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. Newman, V., R. Gonzalez, M.A. Matthay and L.G. Dobbs (2000) A Novel Alveolar Type I Cell-Specific Biochemical Marker of Human Acute Lung Injury. *Am. J. Respir. Crit.CareMed.* 161,990-995
2. Dobbs, L.G., R. Gonzalez, L. Allen and D. Froh. (1999) HTI-56, an Integral Membrane Protein Specific to Human Alveolar Type I Cells. *J. Histochem. Cytochem.* 47(2), 129-137
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



IHC testing of anti HT1-56:

Anti HT1-56 was diluted 1:100 (B) or 1:250 (D) and incubated on a 2 μ m thick section of human lung for 30 min at 27°C. Bound primary antibody was visualized using affinity purified isotype specific secondary antibody labeled with Alex488.

Batch Concentration: 50.21 μ gs of mouse IgG1/ ml supernatant

Anti HT1-56 mouse IgG1 in the hybridoma supernatant was quantified using a mouse IgG1 Elisa Kit (#6330, Alpha Diagnostics). Supernatant serial dilutions were tested in duplicate, negative controls were negative and positive controls were positive.

Batch expiration: 08-15-23 Lot: RW29

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