TABLE 4

INTERSPECIES COMPARISON OF CHARACTERISTICS OF CELLS FROM THE ALVEOLAR REGION OF NORMAL LUNGS*

	Human	Baboon†	Rat‡
Mean body weights, kg	74 ± 4	29 ± 3§‖	0.363 ± 0.004§‖
Total number of cells/lung, 10^9	230 ± 25	48 ± 5§‖	0.89 ± 0.04§‖
n	8	5	8
Total lung cells, %			
Alveolar Type I	8.3 ± 0.6	11.8 ± 0.6§	8.9 ± 0.9‖
Alveolar Type II	15.9 ± 0.8	7.7 ± 1.0§	14.2 ± 0.7‖
Endothelial	30.2 ± 2.4	36.3 ± 2.4	46.2 ± 1.1§‖
Interstitial	36.1 ± 1.0	41.8 ± 2.7§	27.7 ± 1.8§‖
Macrophage	9.4 ± 2.2	2.3 ± 0.7§	3.0 ± 0.3§
Alveolar Surface Covered, %			
Alveolar Type I	92.9 ± 1.0	96.0 ± 0.6§	96.2 ± 0.5§
Alveolar Type II	7.1 ± 1.0	4.0 ± 0.6§	3.8 ± 0.5§
Average cell volume, μm^3			
Alveolar Type I	1,764 ± 155	1,224 ± 136	2,042 ± 374
Alveolar Type II	889 ± 101	539 ± 184	443 ± 80§
Endothelial	632 ± 64	365 ± 61§	387 ± 30§
Interstitial	637 ± 26	227 ± 30§	331 ± 67§
Macrophage	2,492 ± 167	1,059 ± 287§	1,058 ± 257§
Average Surface Area, μm^2			
Alveolar Type I	5,098 ± 659	4,004 ± 383	5,320 ± 694
Alveolar Type II	183 ± 14	285 ± 85	123 ± 20‖
Endothelial cells	1,353 ± 67	1,040 ± 209	1,105 ± 72

* Values are mean ± 1 SE.

† Hayatdavoudi et al., 1981 (16).

‡ Crapo et al., 1980 (4).

§ $p < 0.05$ for comparisons with human values.

‖ $p < 0.05$ for comparisons of rat with baboon values.