**Comparison chart**

Differences — Similarities —

| Animal Cell versus Plant Cell comparison chart | | |
| --- | --- | --- |
|  | **Animal Cell** | **Plant Cell** |
| **Cell wall** | Absent | Present (formed of cellulose) |
| **Shape** | Round (irregular shape) | Rectangular (fixed shape) |
| **Vacuole** | One or more small vacuoles (much smaller than plant cells). | One, large central vacuole taking up 90% of cell volume. |
| **Centrioles** | Present in all animal cells | Only present in lower plant forms. |
| **Chloroplast** | Animal cells don't have chloroplasts. | Plant cells have chloroplasts because they make their own food. |
| **Cytoplasm** | Present | Present |
| **Endoplasmic Reticulum (Smooth and Rough)** | Present | Present |
| **Ribosomes** | Present | Present |
| **Mitochondria** | Present | Present |
| **Plastids** | Absent | Present |
| **Golgi Apparatus** | Present | Present |
| **Plasma Membrane** | Only cell membrane | Cell wall and a cell membrane |
| **Microtubules/ Microfilaments** | Present | Present |
| **Flagella** | May be found in some cells | May be found in some cells |
| **Lysosomes** | Lysosomes occur in cytoplasm. | Lysosomes usually not evident. |
| **Nucleus** | Present | Present |
| **Cilia** | Present | Most plant cells do not contain [cilia](http://www.diffen.com/difference/Cilia_vs_Flagella) |