

Type of cell	location	Cytoplasm	secretion	note
<u>Surface mucous cells (Foveolar cells)</u>	cover the surface & line the gastric pits & isthmus	Their apical cytoplasm contains mucin granules	<u>neutral mucus</u> for protection (Gastric mucosal barrier)	
<u>Mucous neck cell</u>	present in neck of gastric glands	low columnar cells e foamy cytoplasm	<u>acidic mucus</u>	
<u>stem cells</u>	neck region	>>>>	>>>>>>	low columnar. They differentiate to other gastric cells
<u>Parietal (oxyntic) cells</u>	present mainly in the upper half of the glands – fewer in the base	<u>acidophilic cytoplasm</u> & <u>rounded central nucleus</u>	They secrete HCl & intrinsic factor (glycoprotein) needed for vit. B12 absorption	* <u>triangular</u> in shape * <u>E/M</u> : their apical surfaces show branching intracellular canaliculi that open at the apex. * ↑mitochondria, ↑SER, NO sec. granules
<u>Peptic (Chief, Zymogenic) cells</u>	<u>base of gastric glands</u>	columnar cells e basal rounded nuclei. *The basal cytoplasm basophilic	*pepsinogen & G. lipase	↑rER, while the apical part contains ↑↑ zymogen granules * E/M : protein secreting cells
<u>Entero-endocrine cells</u>	<u>base of the glands</u>		<ul style="list-style-type: none"> ✓ <u>Gastrin</u> ✓ <u>Enteroglucagon</u> ✓ <u>Serotonine</u> ✓ <u>Somatostatin(D cells)</u> 	*Hormone secreting cells *(diffuse neuroendocrine system) *Their secretions accumulates in the basal part to be released to the B.V.