

NB: Iron cross membrane as:

- Ferrous state Fe^{+2} .
- Ferric state Fe^{+3} conjugated with protein.

▣ occurs at → duodenum & proximal part of jejunum.

▣ absorption is enhanced → When iron stores in body are depleted.

NB: When adequate quantity of iron is stored, absorption is ↓.

▣ **Only ferrous** (and not ferric) form of iron **is absorbed**.

▣ Ferric iron is reduced to ferrous iron by ferric reductase (an enzyme present on surface of enterocytes).

▣ Ferrous iron in intestinal lumen binds to mucosal cell protein, called **divalent metal transporter-1 (DMT-1)**.

▣ This bound iron is then transported into mucosal cell.

▣ rest of the unabsorbed iron is excreted.

▣ **Inside intestinal cell:**

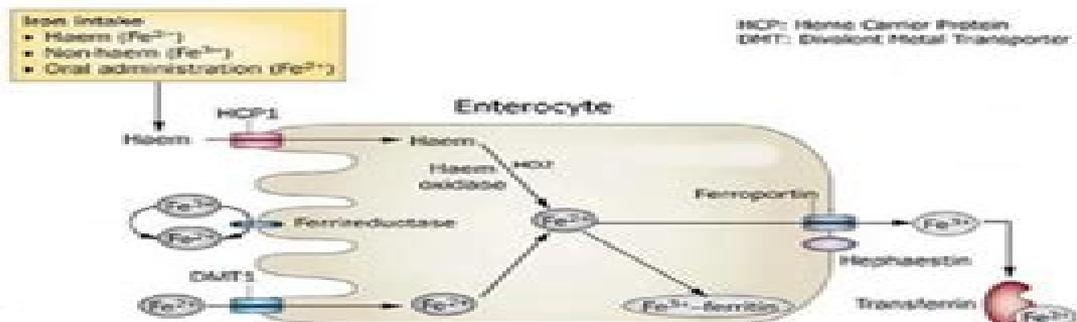
- iron is oxidized to ferric state.
- and **combined with apoferritin** to form **ferritin** (main storage form in intestinal cells). kept temporarily in the mucosal cell.

NB: in case of anemia, iron is further absorbed into bloodstream.

▣ If transferrin is saturated with iron, any iron accumulated in mucosal cell is lost **when cell is desquamated**.

▣ fraction of iron absorbed & retained is decided by iron status.

▣ When iron is in excess, absorption is reduced; this is basis of "mucosal block".



Biochemistry Easy

Lei Shi



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