

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:**

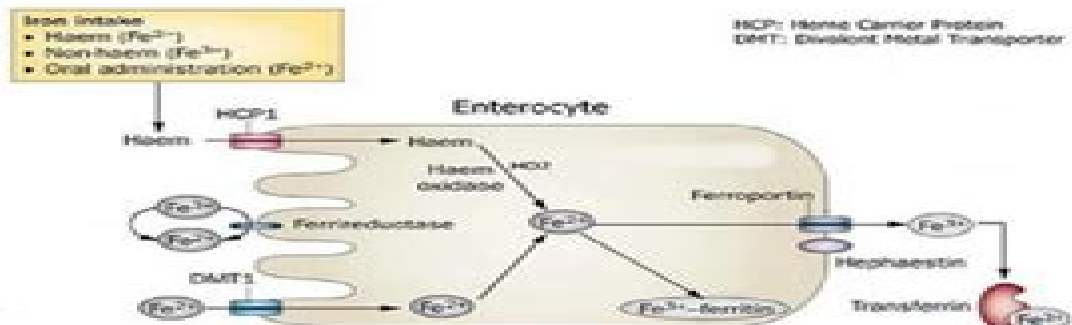
- iron is oxidized to ferric state.
- and combined with **apoferritin** to form **ferritin** (main storage form in intestinal cells). kept temporarily in the mucosal cell.

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

AW Rasmussen



Biochemistry Easy:

Biochemistry Easy Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Biochemistry Easy**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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